

CATALOGUE OF GALAXIES
AND OF
CLUSTERS OF GALAXIES

VOLUME V

F. ZWICKY M. KARPOWICZ C. T. KOWAL

CATALOGUE OF GALAXIES
AND OF
CLUSTERS OF GALAXIES

prepared by

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Volume V

covering the Palomar survey fields

of the declination zones 0° , $+6^{\circ}$, $+12^{\circ}$, $+18^{\circ}$

between $19^{\text{h}}30^{\text{m}}$ and $6^{\text{h}}00^{\text{m}}$ in right ascension

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FIELDS OF SURVEY ZONE 0°

FIELD No.	Survey Plate No.	Center of Field 1950.0		I.A.U. Galactic Coordinates		Page No.
		α	δ	λ	β	
		h m	o ' "	o ' "	o ' "	
371	167	19 41	+ 0 00	39 04	- 11 31	2
372	297	20 05	+ 0 30	42 28	- 16 34	4
373	794	20 29	+ 0 30	45 35	- 21 47	6
374	305	20 53	+ 0 30	48 56	- 26 57	10
375	575	21 17	+ 0 30	52 37	- 32 01	14
376	1130	21 41	+ 0 30	56 44	- 36 58	18
377	1146	22 05	+ 0 30	61 25	- 41 46	22
378	364	22 29	+ 0 30	66 51	- 46 19	26
379	905	22 53	+ 0 30	73 14	- 50 35	28
380	834	23 17	+ 0 30	80 50	- 54 25	32
381	431	23 41	+ 0 30	89 52	- 57 40	36
382	319	0 05	+ 0 30	100 27	- 60 10	40
383	591	0 29	+ 0 30	112 25	- 61 41	44
384	1196	0 53	+ 0 30	125 08	- 62 05	48
385	1259	1 17	+ 0 30	137 42	- 61 18	52
386	362	1 41	+ 0 30	149 15	- 59 26	58
387	852	2 05	+ 0 30	159 19	- 56 39	62
388	1283	2 29	+ 0 30	167 51	- 53 11	66
389	1453	2 53	+ 0 30	175 01	- 49 12	70
390	363	3 17	+ 0 30	181 03	- 44 50	74
391	932	3 41	+ 0 30	186 13	- 40 11	78
392	232	4 05	+ 0 30	190 41	- 35 20	82
393	1524	4 29	+ 0 00	195 08	- 30 37	84
394	969	4 53	+ 0 00	198 41	- 25 30	88
395	909	5 17	+ 0 00	201 57	- 20 18	92
396	435	5 41	+ 0 00	204 59	- 15 03	94

FIELDS OF SURVEY ZONE + 6°

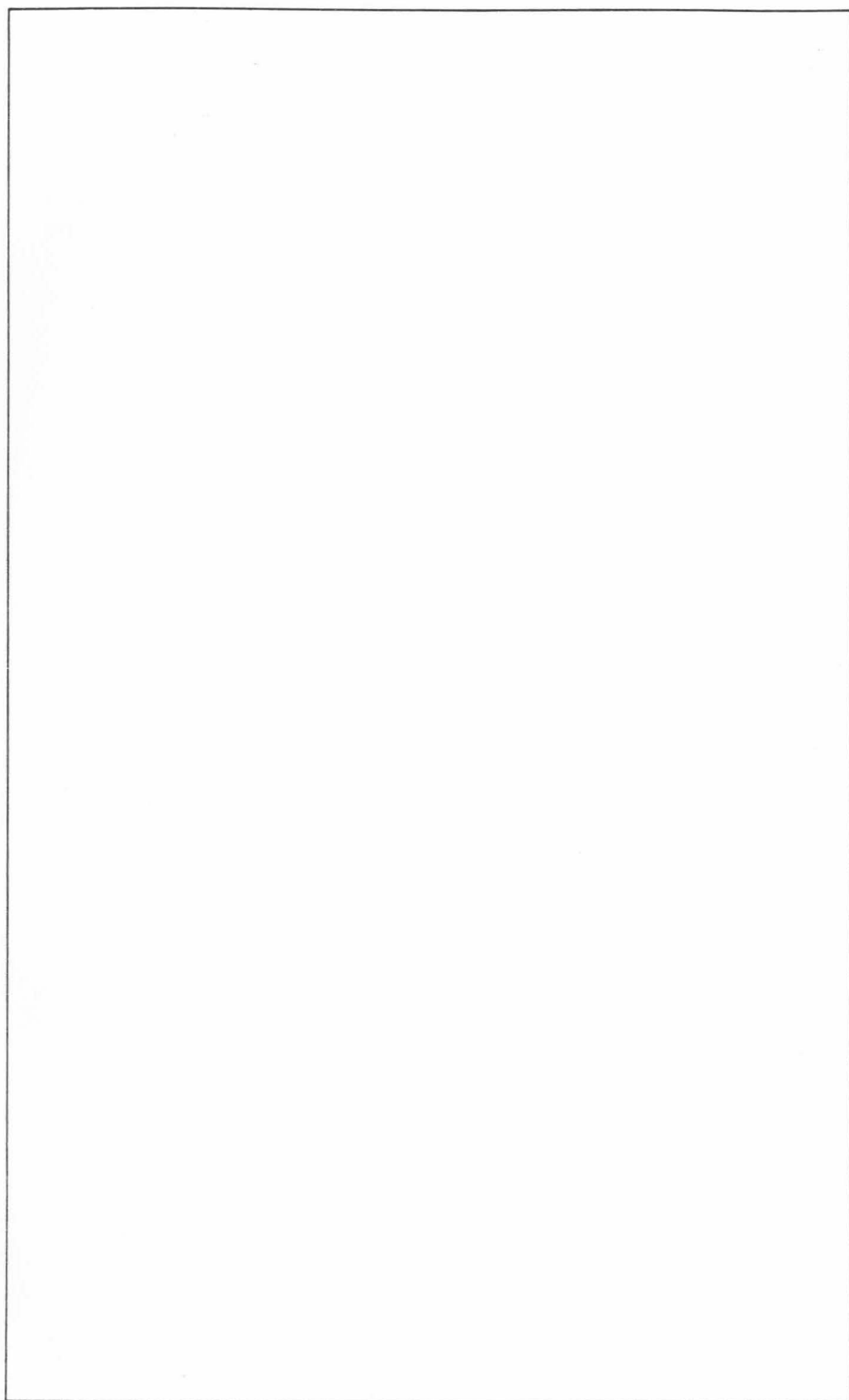
FIELD	Survey Plate	Center of Field 1950.0			I. A. U. Galactic Coordinates			Page
No.	No.	α	δ	λ	β		No.	
		h m	o ' "	o ' "	o ' "			
397	171	19 41	+ 6 00	44 25	- 8 39		96	
398	805	20 05	+ 6 30	47 52	- 13 36		98	
399	315	20 29	+ 6 30	51 04	- 18 42		100	
400	836	20 53	+ 6 30	54 32	- 23 43		102	
401	552	21 17	+ 6 30	58 20	- 28 36		104	
402	860	21 41	+ 6 30	62 34	- 33 20		106	
403	795	22 05	+ 6 30	67 21	- 37 51		108	
404	1157	22 29	+ 6 30	72 49	- 42 06		112	
405	821	22 53	+ 6 30	79 06	- 46 00		116	
406	316	23 17	+ 6 30	86 20	- 49 27		120	
407	796	23 41	+ 6 30	94 37	- 52 19		124	
408	1465	0 05	+ 6 30	103 58	- 54 28		128	
409	915	0 29	+ 6 30	114 09	- 55 45		132	
410	877	0 53	+ 6 30	124 47	- 56 05		136	
411	1201	1 17	+ 6 30	135 19	- 55 26		138	
412	21	1 41	+ 6 30	145 16	- 53 51		142	
413	1282	2 05	+ 6 30	154 16	- 51 26		146	
414	1306	2 29	+ 6 30	162 12	- 48 22		150	
415	1320	2 53	+ 6 30	169 06	- 44 45		154	
416	1471	3 17	+ 6 30	175 05	- 40 43		158	
417	1499	3 41	+ 6 30	180 18	- 36 22		160	
418	1308	4 05	+ 6 30	184 54	- 31 47		162	
419	887	4 29	+ 6 00	189 26	- 27 17		164	
420	974	4 53	+ 6 00	193 07	- 22 20		166	
421	1270	5 17	+ 6 00	196 28	- 17 16		170	
422	1493	5 41	+ 6 00	199 36	- 12 08		174	

FIELDS OF SURVEY ZONE + 12°

FIELD	Survey Plate	Center of Field 1950.0				I.A.U. Galactic Coordinates				Page
No.	No.	α		δ		λ		β		No.
		h	m	o	'	o	'	o	'	
423	325	20	05	+	12 30	53	08	-	10 31	176
424	812	20	29	+	12 30	56	21	-	15 28	178
425	558	20	53	+	12 30	59	51	-	20 18	182
426	298	21	17	+	12 30	63	41	-	24 58	184
427	799	21	41	+	12 30	67	56	-	29 26	188
428	1137	22	05	+	12 30	72	40	-	33 41	192
429	875	22	29	+	12 30	78	01	-	37 37	196
430	800	22	53	+	12 30	84	02	-	41 11	198
431	313	23	17	+	12 30	90	48	-	44 17	202
432	318	23	41	+	12 30	98	21	-	46 50	206
433	E-9 + O-10	0	05	+	12 30	106	36	-	48 42	210
434	823	0	29	+	12 30	115	25	-	49 48	214
435	1274	0	53	+	12 30	124	31	-	50 05	218
436	635	1	17	+	12 30	133	34	-	49 32	222
437	E-14 + O-15	1	41	+	12 30	142	13	-	48 09	226
438	209	2	05	+	12 30	150	15	-	46 03	230
439	1300	2	29	+	12 30	157	33	-	43 19	234
440	E-15 + O-16	2	53	+	12 30	164	03	-	40 03	236
441	E-11 + O-12	3	17	+	12 30	169	50	+	36 20	240
442	940	3	41	+	12 30	174	58	-	32 18	242
443	854	4	05	+	12 30	179	33	-	27 58	244
444	1504	4	29	+	12 00	184	04	-	23 44	246
445	1534	4	53	+	12 00	187	47	-	18 59	248
446	1267	5	17	+	12 00	191	11	-	14 06	250

FIELDS OF SURVEY ZONE + 18°

FIELD	Survey	Center of Field				I. A. U. Galactic				Page
No.	Plate	1950.0				Coordinates				No.
	No.	α		δ		λ		β		
		h	m	o	r	o	'	o	'	
447	276	20	29	+	18 30	61	28	-	12 07	252
448	831	20	53	+	18 30	64	56	-	16 43	254
449	1141	21	17	+	18 30	68	42	-	21 08	256
450	375	21	41	+	18 30	72	52	-	25 21	258
451	187	22	05	+	18 30	77	29	-	29 18	260
452	842	22	29	+	18 30	82	36	-	32 56	262
453	1161	22	53	+	18 30	88	17	-	36 11	266
454	320	23	17	+	18 30	94	32	-	38 59	270
455	1182	23	41	+	18 30	101	22	-	41 14	274
456	1195	0	05	+	18 30	108	42	-	42 53	278
457	903	0	29	+	18 30	116	25	-	43 51	282
458	930	0	53	+	18 30	124	19	-	44 05	286
459	1251	1	17	+	18 30	132	11	-	43 36	288
460	1275	1	41	+	18 30	139	48	-	42 24	292
461	1202	2	05	+	18 30	146	58	-	40 33	296
462	443	2	29	+	18 30	153	37	-	38 06	300
463	425	2	53	+	18 30	159	41	-	35 09	304
464	1460	3	17	+	18 30	165	10	-	31 46	308
465	444	3	41	+	18 30	170	06	-	28 01	310
466	223	4	05	+	18 30	174	34	-	23 59	312
467	1501	4	29	+	18 00	179	00	-	20 00	314
468	1481	4	53	+	18 00	182	41	-	15 30	316
469	639	5	17	+	18 00	186	02	-	10 49	318



INTRODUCTION

INTRODUCTION


In this fifth volume of the catalogue the material is presented in essentially the same arrangement as in volumes I and II. This arrangement and the methods of reduction used have been described in the introductions to the first and second volumes. Corrections for errors and omissions found in previous volumes will be published in the last volume of the series. Attention is here only called to the fact that originally the descriptions of some galaxies as compact, very compact and extremely compact were based on the appearance of the images on 18-inch Schmidt films. These descriptions are not any more strictly comparable with the definitions of various degrees of compactness of galaxies as they have been recently introduced in the astronomical literature as a consequence of the discoveries of various new classes of absolutely compact galaxies with the large telescopes.

SYMBOLS USED ON THE CHARTS

GALAXIES

✕	$m_p \leq 11.0$	●	$13.1 \leq m_p \leq 14.0$
■	$11.1 \leq m_p \leq 12.0$	○	$14.1 \leq m_p \leq 15.0$
□	$12.1 \leq m_p \leq 13.0$	△	$15.1 \leq m_p \leq 15.7$

CLUSTERS OF GALAXIES

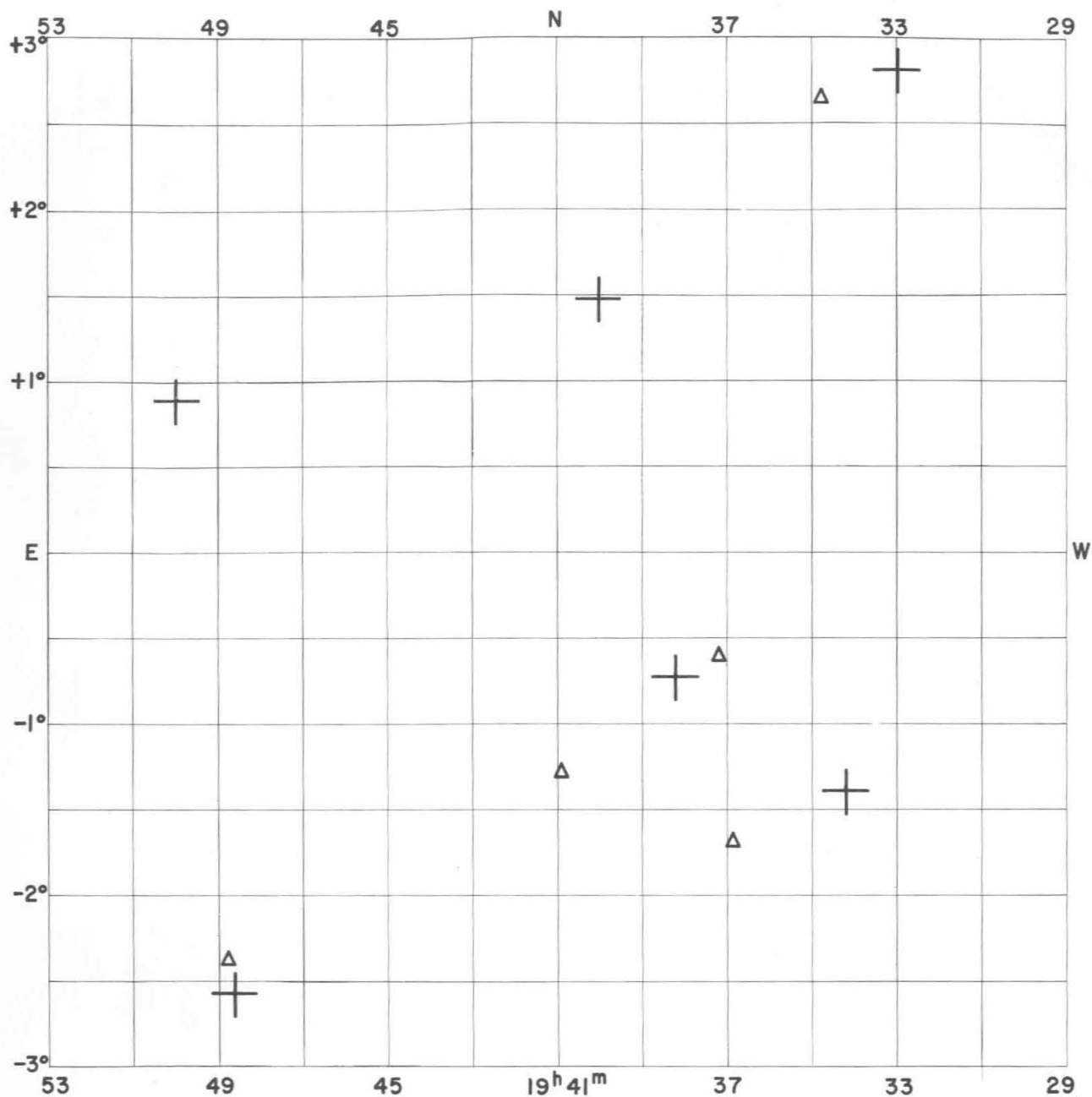
5  = Cluster No. 5 on the chart

GC STARS are marked by a cross: +

DISTANCES OF CLUSTERS

Near:		$V_s \leq 15,000 \text{ km/sec}$
MD	= Medium distant:	$15,000 \text{ km/sec} < V_s \leq 30,000 \text{ km/sec}$
D	= Distant:	$30,000 \text{ km/sec} < V_s \leq 45,000 \text{ km/sec}$
VD	= Very distant:	$45,000 \text{ km/sec} < V_s \leq 60,000 \text{ km/sec}$
ED	= Extremely distant:	$60,000 \text{ km/sec} < V_s$

CATALOGUE



FIELD No. 371

$19^h41^m + 0^{\circ}00'$

Survey Plate No. 167

GC STARS

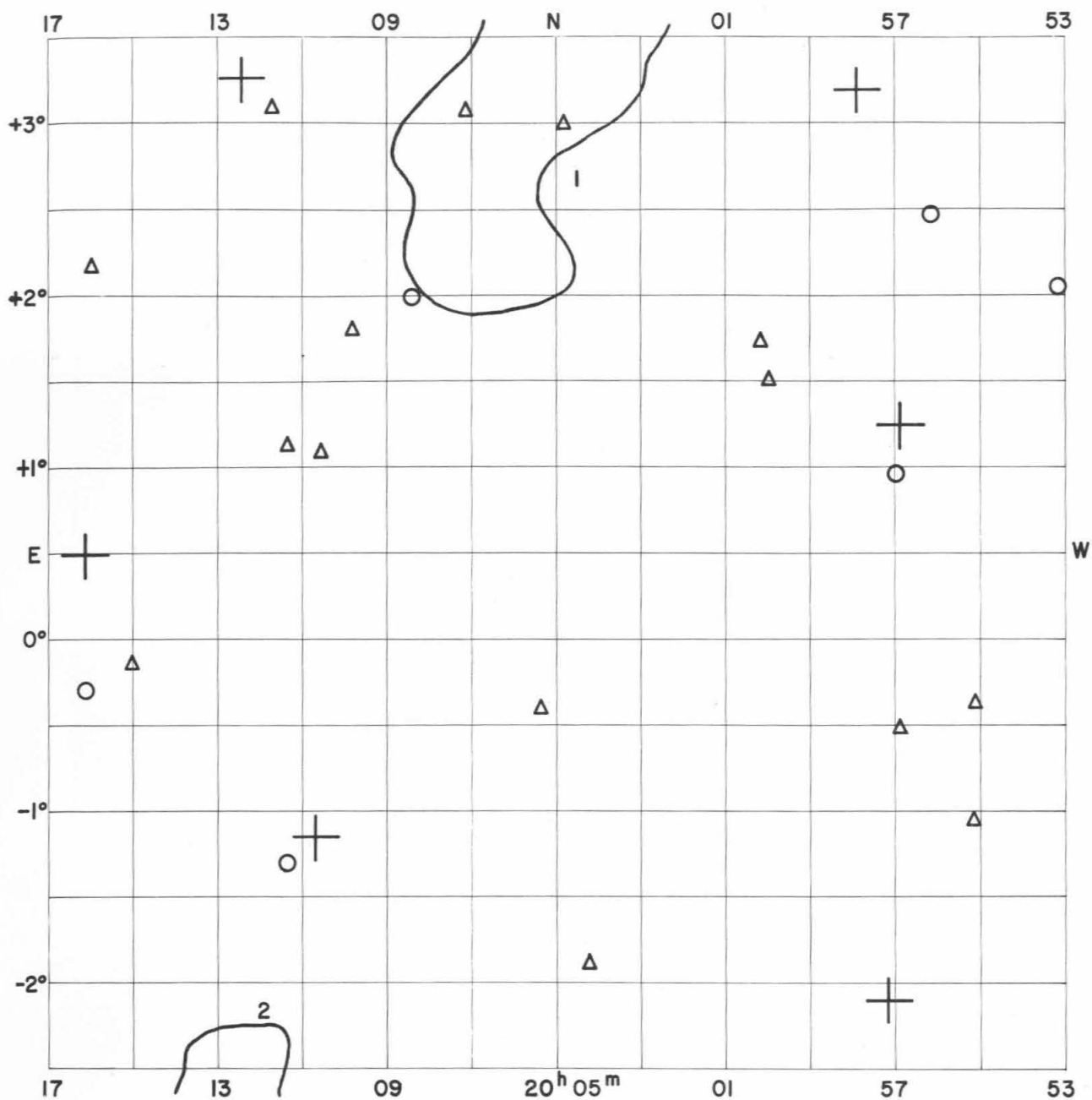
Nos.	R. A.			Decl.	m_p
	h	m	s		
27064	19	32	54.4	+ 2 48 05	6.49
27103	19	34	08.1	- 1 23 56	4.28
27222	19	38	08.8	- 0 44 19	5.52
27265	19	39	57.0	+ 1 28 07	7.7
27478	19	48	34.7	- 2 35 20	6.36
27517	19	49	55.5	+ 0 52 33	Var.

CLUSTERS OF GALAXIES

No clusters in this field

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
19	34.7	+02	37		15.6		
19	36.8	-01	41		15.7		
19	37.2	-00	37		15.7		
19	40.9	-01	17		15.1		
19	48.8	-02	23		15.4		compact



FIELD No. 372

$20^{\text{h}}05^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 297

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
27681	19	56	50.1	+	1	14 22	6.35
27691	19	57	05.7	-	2	06 27	6.61
27715	19	57	50.8	+	3	11 38	6.79
28068	20	10	38.9	-	1	09 38	5.64
28115	20	12	22.8	+	3	15 12	7.7
28220	20	16	04.0	+	0	29 03	6.92

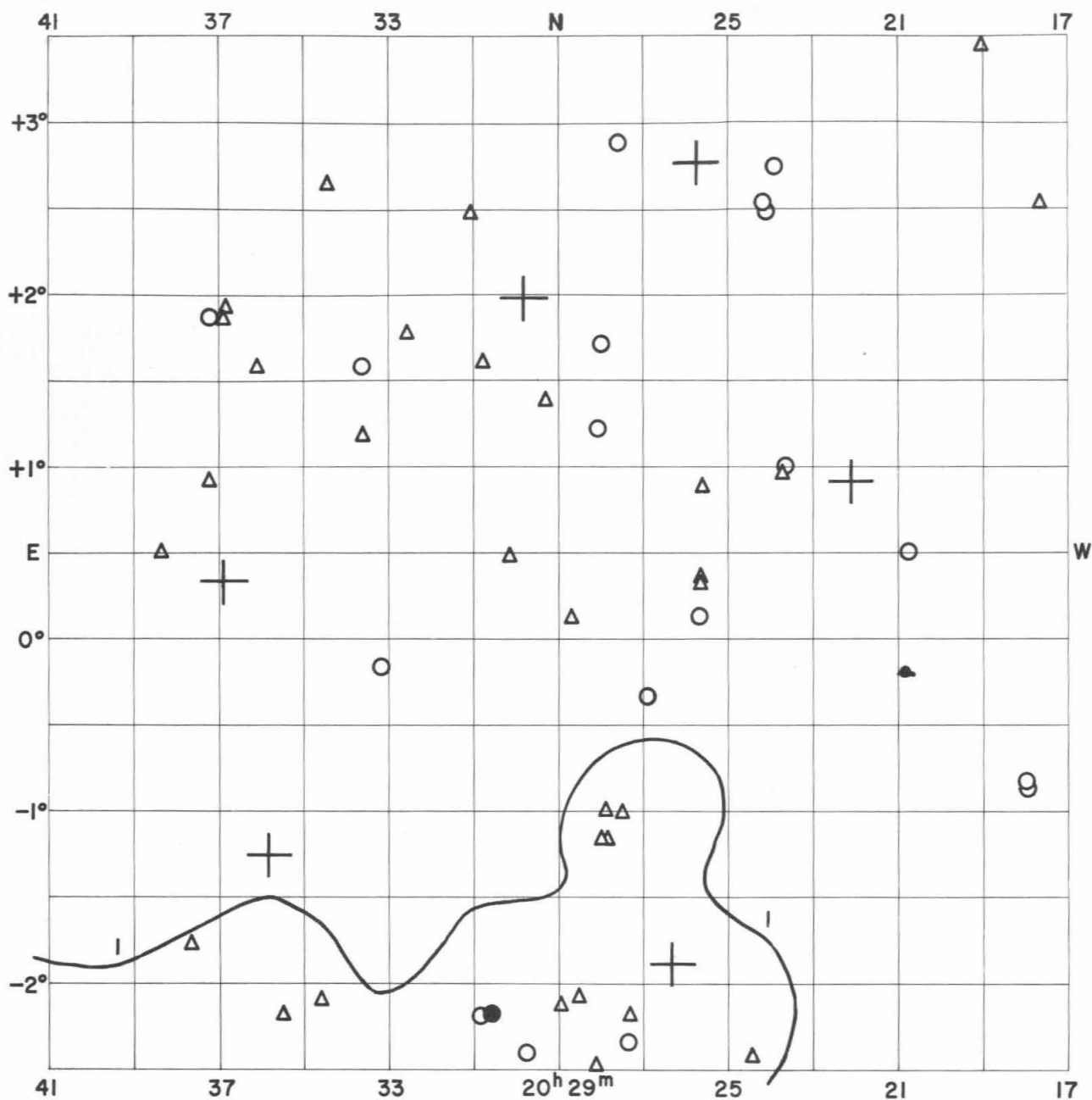
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
2006.0 + 0304	medium compact	98	8.6	Near	1
2012.6 - 0232	medium compact	88	3.4	D	2

Average number of galaxies per cluster = 93.0

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	°				
19	53.1	+02	02		14.9		
19	55.0	-00	22		15.6		
19	55.1	-01	03		15.5		
19	56.1	+02	28		14.5		
19	56.8	-00	31		15.5		
19	56.9	+00	57		14.8		
19	59.9	+01	30		15.2		
20	00.2	+01	44		15.2		
20	04.2	-01	52		15.4		
20	04.8	+02	59		15.3		
20	05.3	-00	23		15.5		
20	07.1	+03	03		15.7		
20	08.3	+01	59		14.9		
20	09.8	+01	48		15.4		
20	10.5	+01	05		15.6		
20	11.3	-01	18		14.4		
20	11.4	+01	07		15.7		
20	11.7	+03	04		15.2		
20	15.0	-00	08		15.1		
20	15.9	+02	09		15.7		
20	16.1	-00	18		14.8		



FIELD No. 373

$20^{\text{h}}29^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 794

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
28382	20	22	04.6	+	0	54 19	6.11
28470	20	25	45.6	+	2	46 13	6.35
28495	20	26	14.4	-	1	54 04	6.85
28570	20	29	48.4	+	1	57 43	6.65
28725	20	35	45.3	-	1	16 52	4.51
28761	20	36	51.1	+	0	18 34	5.39

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2044.9 - 0315	open	563	30.3	Near	1

Average number of galaxies per cluster = 563.0

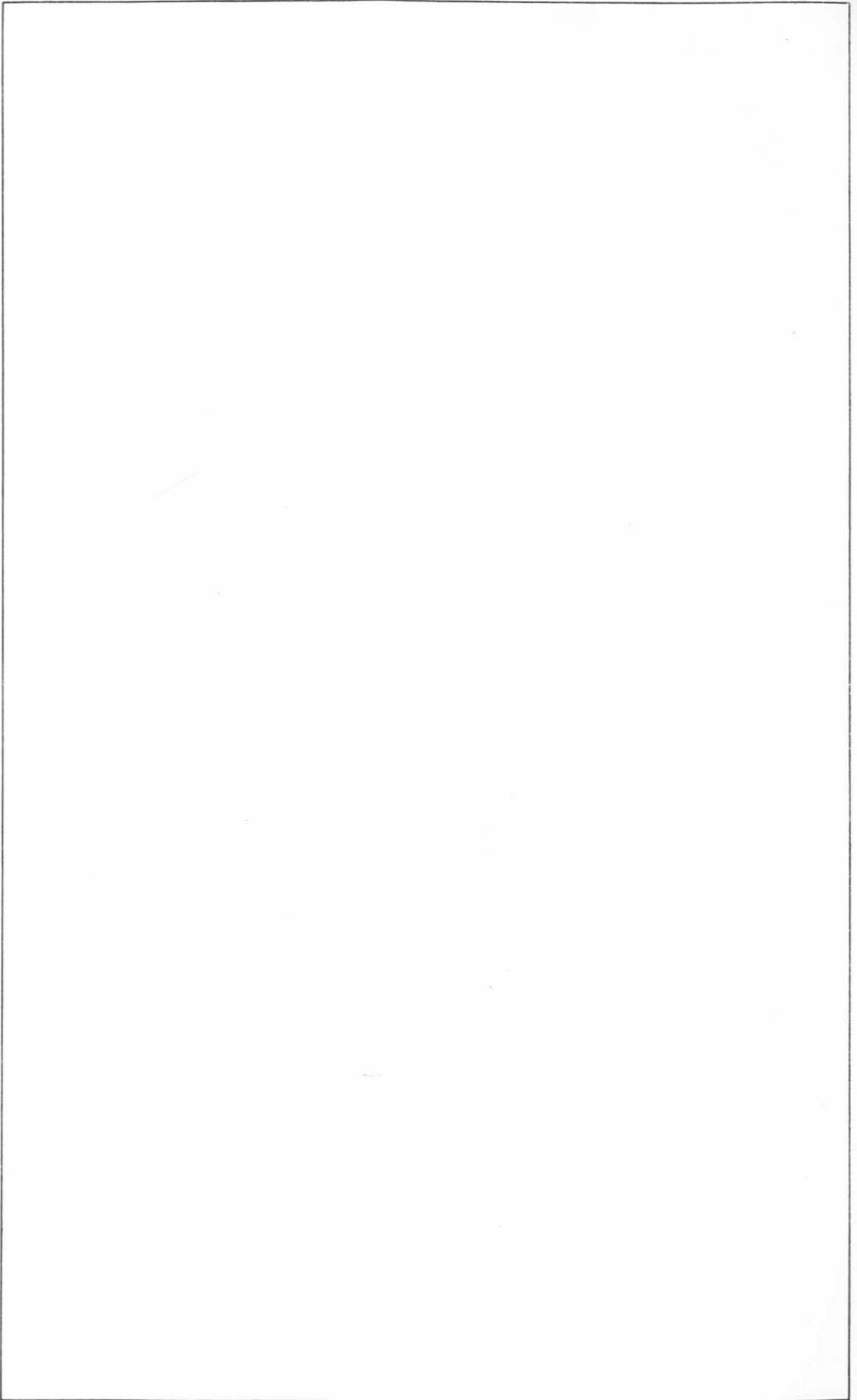
GALAXIES

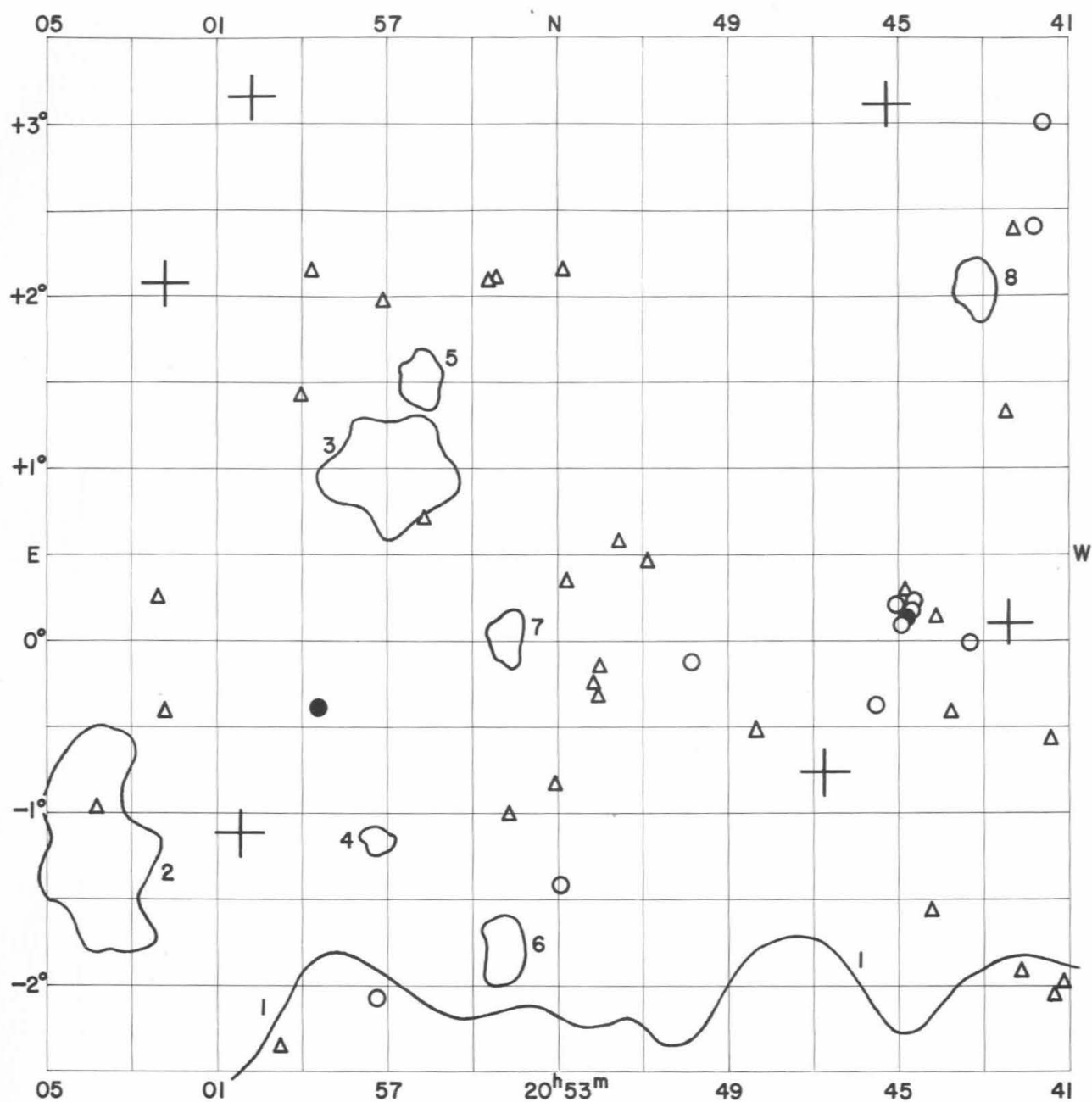
Position				NGC	m _p	V _s	Remarks
α	1950	δ	IC*			km/sec	
h	m	o'					
20	17.7	+ 02 33			15.6		
20	18.0	- 00 53			14.8		
20	18.0	- 00 50			14.9		
20	19.1	+ 03 27			15.7		
20	20.7	+ 00 30	1317*		14.5	+ 3975	
20	23.6	+ 01 00			14.5		
20	23.7	+ 00 57			15.7		diffuse
20	23.9	+ 02 45	1320*		14.5		
20	24.1	+ 02 29			14.9		
20	24.2	+ 02 32			14.7		
20	24.4	- 02 25			15.2		14th mag. star superposed
20	25.6	+ 00 52			15.7		
20	25.7	+ 00 07			14.2		
20	25.7	+ 00 18			15.5		
20	25.7	+ 00 20			15.6		
20	26.9	- 00 20			14.8		
20	27.3	- 02 21	6922		14.4		
20	27.3	- 02 11			15.7		
20	27.5	- 01 01			15.7		
20	27.6	+ 02 54			14.8		
20	27.8	- 01 10			15.2		
20	27.9	- 01 00			15.6		
20	28.0	- 01 10			15.5		
20	28.0	+ 01 42			14.9		
20	28.1	+ 01 13			14.6		
20	28.2	- 02 30			15.5		
20	28.5	- 02 05			15.4		
20	28.7	+ 00 07			15.7		
20	28.9	- 02 07			15.5		
20	29.3	+ 01 22			15.7		
20	29.7	- 02 24			14.8		
20	30.1	+ 00 27			15.7		
20	30.5	- 02 11	6926		13.6		
20	30.7	+ 01 35			15.3		
20	30.8	- 02 12	6929		14.9		
20	31.0	+ 02 28			15.6		
20	32.5	+ 01 46			15.6		
20	33.1	- 00 09	1327*		15.0		
20	33.6	+ 01 10			15.7		
20	33.6	+ 01 33			15.0		
20	34.4	+ 02 38			15.6		
20	34.5	- 02 07			15.2		
20	35.4	- 02 12			15.7		
20	36.1	+ 01 33			15.4		
20	36.8	+ 01 55			15.2		
20	36.9	+ 01 51			15.2		
20	37.2	+ 00 54			15.3		

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
20	37.2	+ 01	52		14.8		
20	37.6	- 01	47		15.5		
20	38.3	+ 00	29		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall Sandage 1956		Holmberg 1958	
1317*	-	-	14.68	SB0	14.5	SB0	-	-





FIELD No. 374

20^h53^m + 0°30'

Survey Plate No. 305

GC STARS

Nos.	R. A.			Decl.			m _p
	h	m	s	o	'	"	
28912	20	42	23.0	+	0	06 38	7.43
28984	20	45	16.7	+	3	07 17	6.35
29025	20	46	42.9	-	0	44 57	6.53
29373	21	00	11.6	+	3	09 09	6.68
29377	21	00	25.0	-	1	07 23	6.31
29435	21	02	13.0	+	2	04 15	6.42

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2043.1 + 0204	compact	62	1.6	ED	8
2044.9 - 0315	open	563	30.3	Near	1
2054.1 + 0002	compact	56	1.3	VD	7
2054.2 - 0148	open	61	1.6	ED	6
2056.1 + 0131	medium compact	56	1.6	VD	5
2056.8 + 0058	medium compact	116	3.8	D	3
2057.2 - 0108	compact	48	0.9	ED	4
2103.8 - 0113	open	97	4.8	MD	2

Average number of galaxies per cluster = 132.4

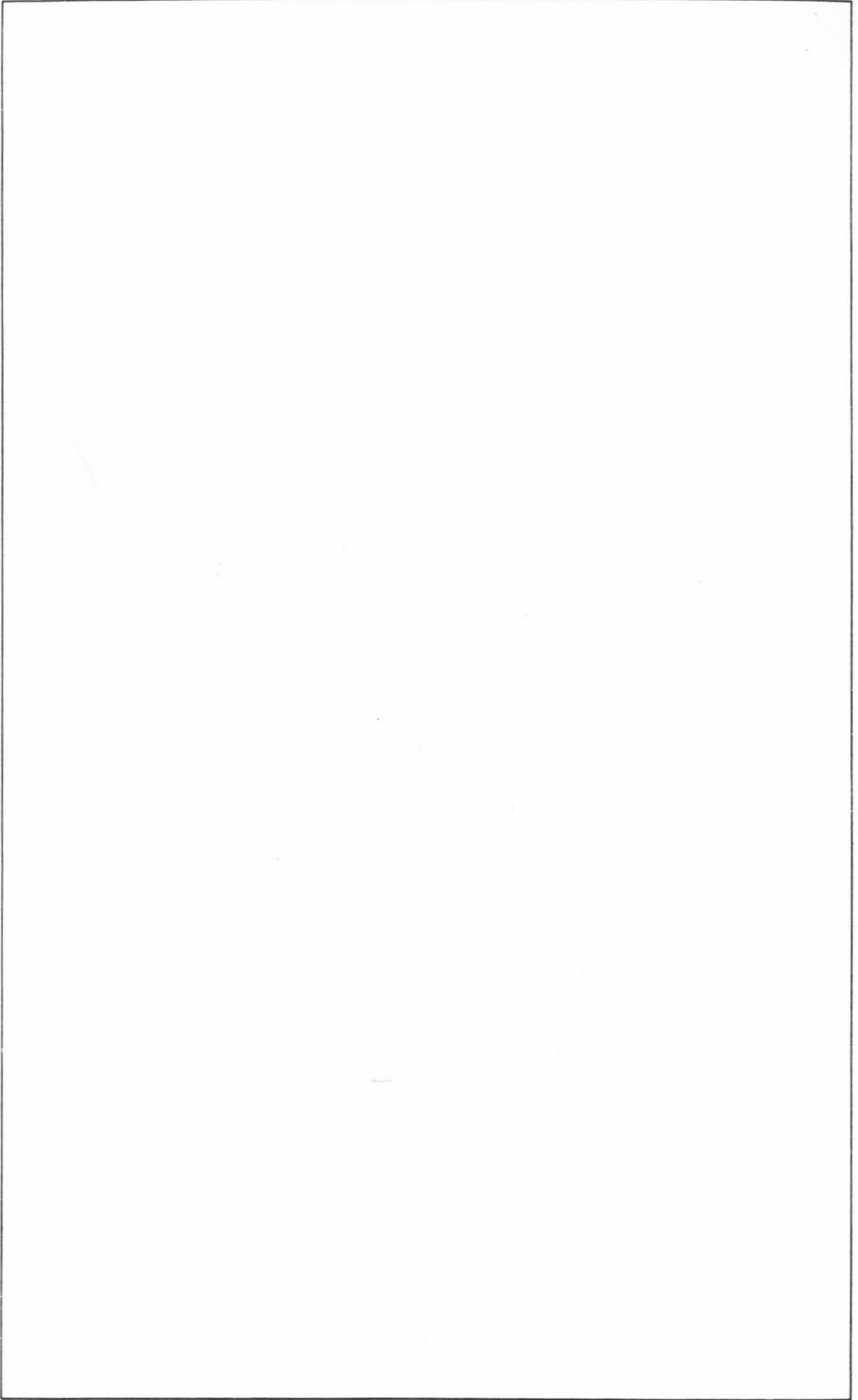
GALAXIES

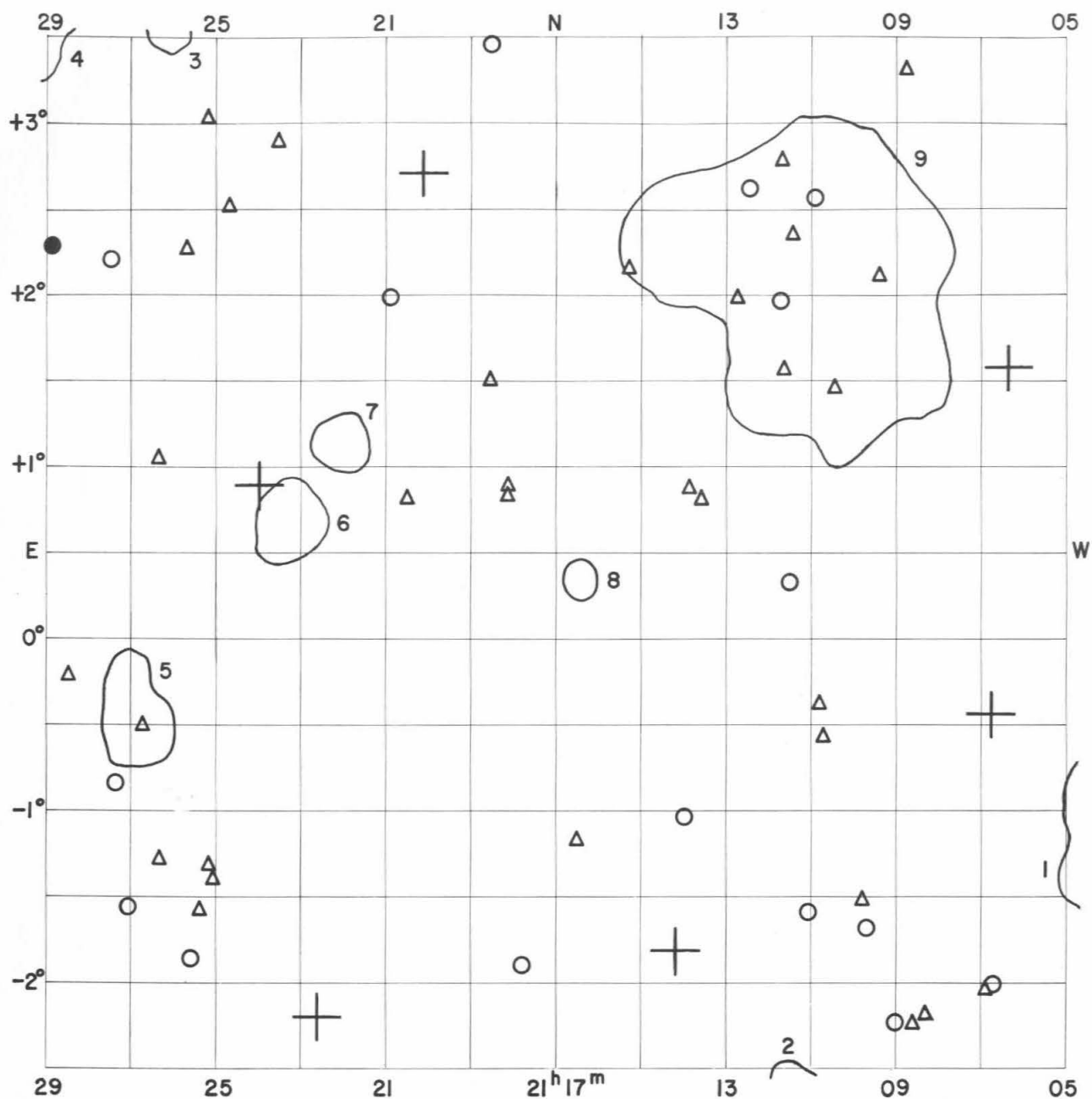
Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
20	41.1	- 01	59		15.7		
20	41.4	- 02	04		15.5		
20	41.4	- 00	33		15.7		
20	41.6	+ 03	02	6954	14.2	+ 4011	
20	41.8	+ 02	25	6955	14.9		
20	42.1	- 01	54		15.2		
20	42.3	+ 02	24	6957	15.3		
20	42.5	+ 01	20		15.7		
20	43.3	00	00		14.9		
20	43.8	- 00	24		15.2		
20	44.1	+ 00	09		15.6		
20	44.2	- 01	32		15.3		
20	44.5	+ 00	15	6959	14.6		
20	44.6	+ 00	11	6961	14.8		
20	44.8	+ 00	08	6962	13.5	+ 4183	
20	44.8	+ 00	18	6963	15.2	+ 4351	
20	44.9	+ 00	07	6964	14.2	+ 3832	
20	45.0	+ 00	13	6967	14.3		
20	45.5	- 00	22		15.0		
20	48.3	- 00	32		15.4		
20	49.9	- 00	06		15.0		
20	50.9	+ 00	27		15.5		
20	51.6	+ 00	35		15.2		
20	52.0	- 00	18		15.6		
20	52.0	- 00	08		15.3		
20	52.2	- 00	14		15.5		
20	52.8	+ 00	21		15.2		
20	52.9	- 01	25		14.5		
20	52.9	+ 02	09		15.1		
20	53.1	- 00	49		15.5		
20	54.1	- 01	01		15.7		
20	54.4	+ 02	05		15.7		extremely diffuse
20	54.6	+ 02	05		15.7		
20	56.1	+ 00	43		15.4		
20	57.0	+ 01	58		15.1		
20	57.2	- 02	04		14.4		double system
20	58.6	- 00	23	7001	14.0		
20	58.7	+ 02	08		15.6		
20	59.0	+ 01	25		15.7		compact
20	59.5	- 02	22		15.7		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ					
h	m	o	'				
21	02.2	- 00	25		15.6		double system, connected
21	02.3	+ 00	15		15.5		
21	03.8	- 00	58		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
6954	-	-	14.14	Sa	14.1	Sb	-	-
6962	-	-	13.12	Sb	12.8	Sb	-	-
6963	-	-	15.11	E0	15.2	E0	-	-
6964	-	-	14.06	E4	14.2	E4	-	-





FIELD No. 375

$21^{\text{h}}17^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 575

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
29555	21	06	19.0	+	1	35 04	7.06
29568	21	06	41.8	-	0	26 19	6.52
29754	21	14	04.3	-	1	49 02	6.41
29920	21	20	04.1	+	2	42 15	6.56
29987	21	22	31.7	-	2	12 17	8.1
30022	21	23	54.6	+	0	53 18	6.40

CLUSTERS OF GALAXIES

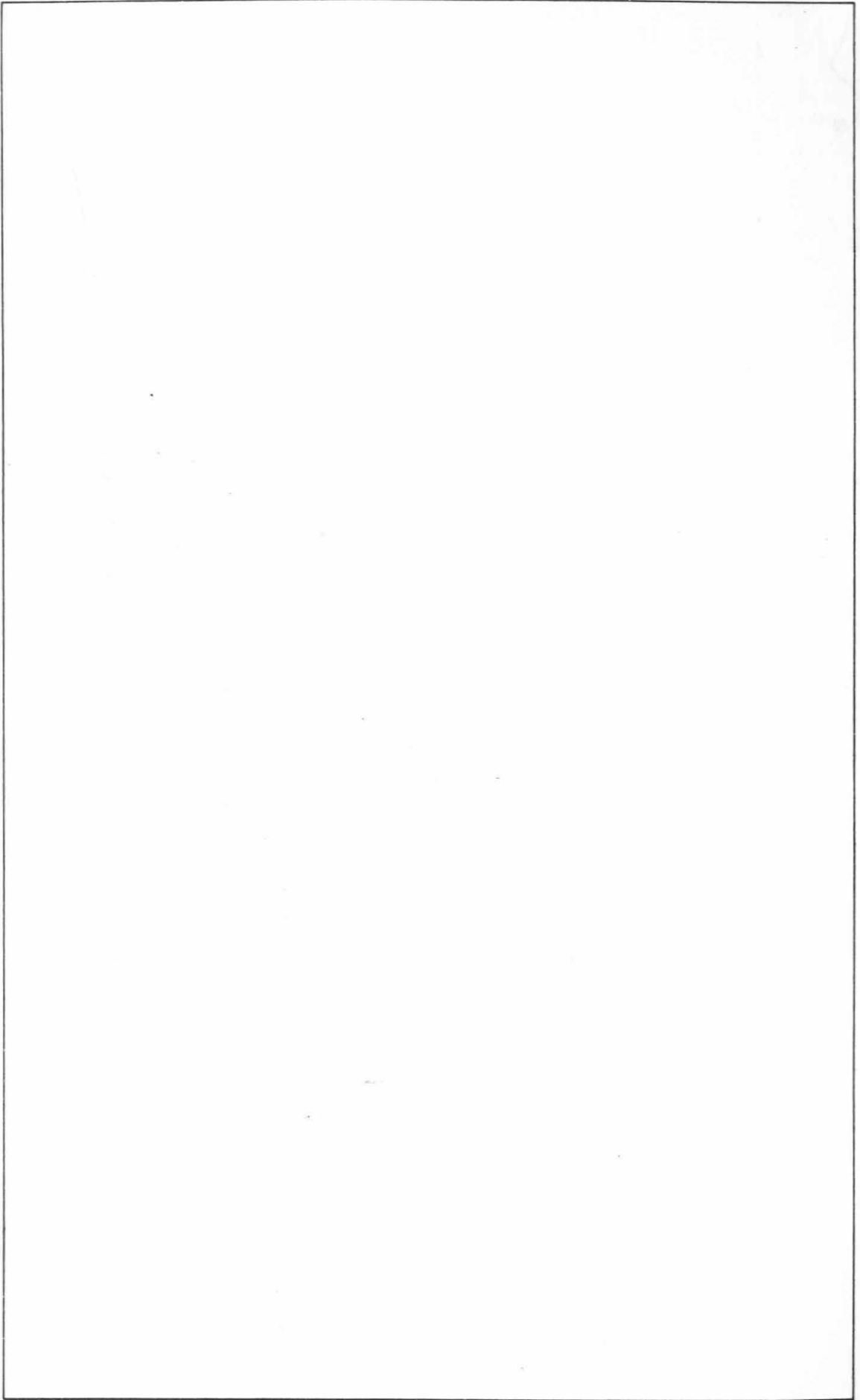
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2103.8 - 0113	open	97	4.8	MD✓	1
2110.9 + 0203	medium compact	172	9.7	Near	9
2111.4 - 0239	medium compact	66	1.6	D	2
2116.4 + 0020	medium compact	47	1.1	ED	8
2122.0 + 0107	medium compact	83	1.9	VD	7
2123.2 + 0041	open	112	2.3	VD	6
2125.4 + 0411	medium compact	238	5.2	MD✓	3
2126.8 - 0028	medium compact	121	2.8	VD	5
2129.6 + 0352	open	187	5.4	MD✓	4

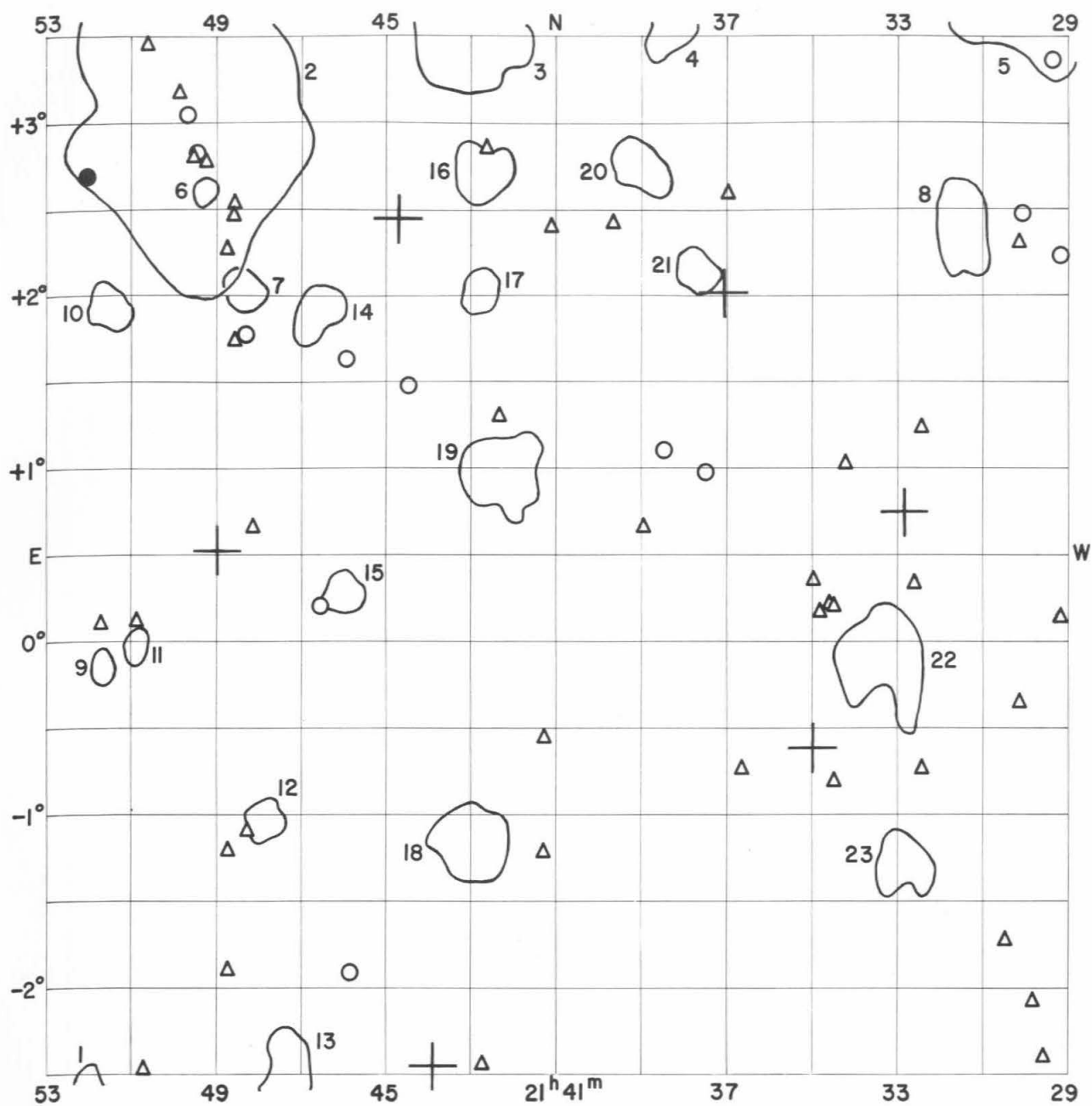
Average number of galaxies per cluster = 124.8

GALAXIES

Position a 1950 δ h. m. o.	NGC IC*	m _p	V _s km/sec	Remarks
21 06.7 - 02 00		15.0		
21 06.9 - 02 03		15.4		
21 08.3 - 02 11		15.1		
21 08.6 - 02 15		15.2		
21 08.7 + 03 18		15.3		
21 09.0 - 02 14	5090*	14.5		
21 09.3 + 02 08	1362*	15.7		
21 09.6 - 01 40		14.7		
21 09.8 - 01 32		15.2		
21 10.4 + 01 27		15.6		
21 10.7 - 00 34		15.2		
21 10.8 - 00 22		15.4		
21 10.9 + 02 34	1364*	14.7		
21 11.0 - 01 35		15.0		
21 11.4 + 02 21	1365*	15.1		multiple system
21 11.5 + 00 20		14.9		
21 11.6 + 01 33	1366*	15.7		
21 11.7 + 01 58	1368*	14.3		
21 11.7 + 02 47	1367*	15.3		
21 12.4 + 02 37	7046	14.2		
21 12.7 + 01 59	1370*	15.1		multiple system
21 13.6 + 00 48		15.2		
21 13.9 - 01 02	7047	14.3		
21 13.9 + 00 52		15.7		
21 15.2 + 02 09		15.7		diffuse
21 16.5 - 01 10		15.5		
21 17.7 - 01 53		14.9		
21 18.1 + 00 50		15.3		
21 18.1 + 00 52	1373*	15.4		double system
21 18.4 + 03 27		15.0		double system
21 18.5 + 01 30	1374*	15.7		
21 20.4 + 00 49		15.7		
21 20.8 + 01 58		14.9		
21 23.5 + 02 53	1379*	15.7		
21 24.6 + 02 30	1380*	15.5		
21 25.0 - 01 23	1381*	15.6		
21 25.1 - 01 18	1383*	15.7		
21 25.1 + 03 02		15.5		extremely diffuse

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	r				
21	25.3	- 01	34	1384*	15.4		
21	25.5	- 01	52	7069	14.8		
21	25.6	+ 02	15	5111*	15.1		
21	26.3	- 01	17	1385*	15.4		
21	26.3	+ 01	02		15.2		double system with bridge
21	26.6	- 00	30		15.3		
21	27.0	- 01	34	1387*	15.0		
21	27.3	- 00	50	1388*	15.0		
21	27.4	+ 02	12	7077	14.3		
21	28.4	- 00	12		15.2		
21	28.8	+ 02	16	7081	13.7		





FIELD No. 376

$21^{\text{h}}41^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 1130

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
30222	21	32	50.3	+	0	45 10	7.38
30265	21	34	59.7	-	0	36 56	6.27
30315	21	37	01.0	+	2	01 04	5.33
30482	21	43	56.5	-	2	26 41	7.16
30501	21	44	41.8	+	2	27 15	5.50
30592	21	49	00.3	+	0	32 09	6.86

CLUSTERS OF GALAXIES

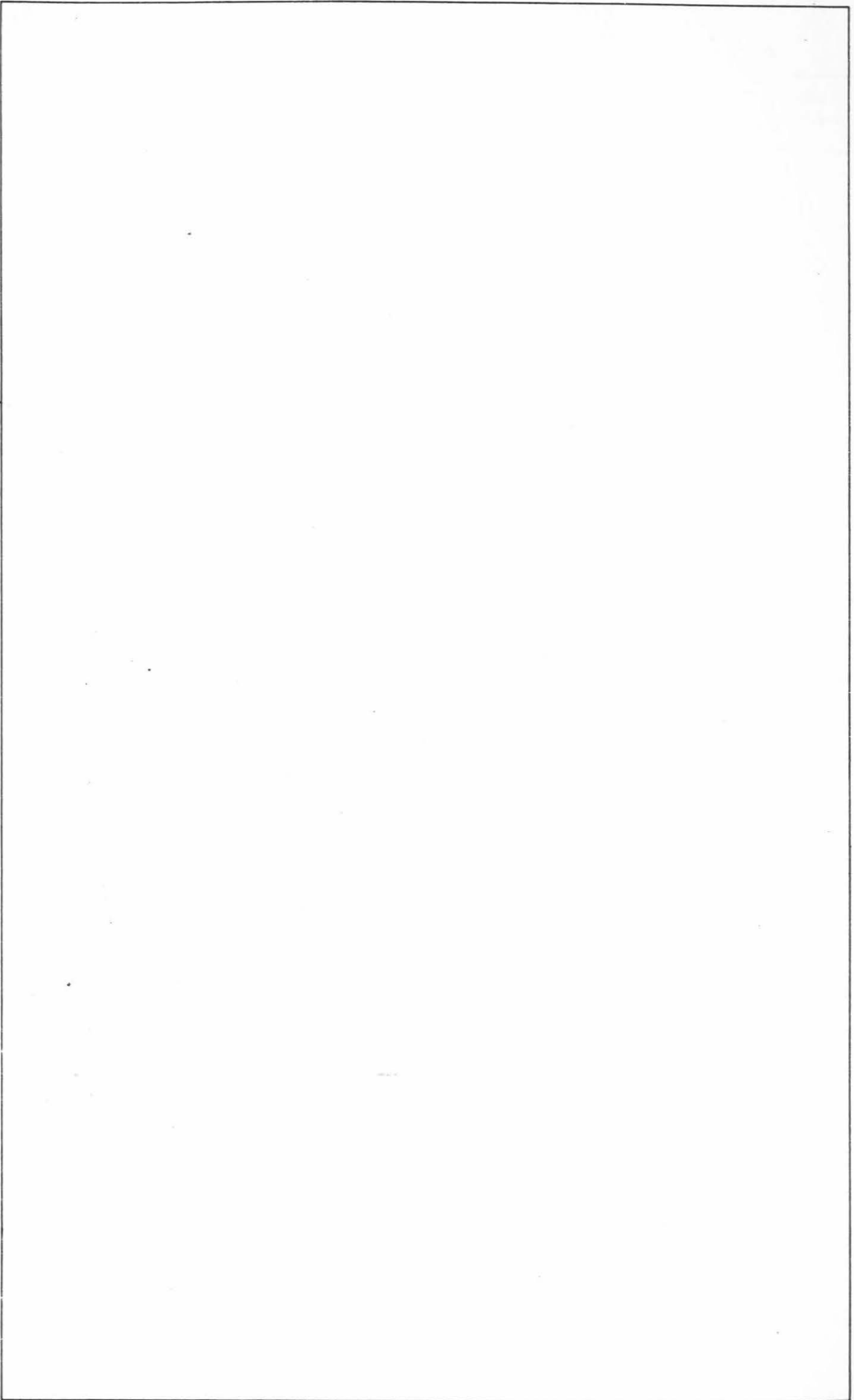
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2129.6 + 0352	open	187	5.4	MD	5
2131.4 + 0224	medium compact	79	2.1	ED	8
2132.8 - 0117	medium compact	88	1.8	ED	23
2133.2 - 0006	medium compact	134	3.0	VD	22
2137.7 + 0209	medium compact	56	1.3	ED	21
2138.3 + 0331	compact	59	1.5	ED	4
2139.0 + 0245	medium compact	55	1.7	ED	20
2142.2 + 0059	medium compact	80	2.2	ED	19
2142.7 + 0202	compact	59	1.3	ED	17
2142.7 + 0243	medium compact	81	1.8	ED	16
2142.9 - 0109	open	61	2.2	VD	18
2143.0 + 0326	medium compact	209	3.4	VD	3
2145.9 + 0017	medium compact	58	1.3	ED	15
2146.6 + 0155	compact	69	1.6	ED	14
2147.2 - 0229	open	53	1.9	ED	13
2147.8 - 0101	compact	61	1.3	ED	12
2148.3 + 0202	medium compact	70	1.3	VD	7
2149.2 + 0236	compact	44	0.8	ED	6
2149.6 + 0319	open	186	9.8	Near	2
2150.8 - 0002	compact	48	0.9	ED	11
2151.5 + 0156	medium compact	65	1.4	ED	10
2151.6 - 0008	medium compact	73	0.9	ED	9
2151.9 - 0244	medium compact	55	2.0	VD	1

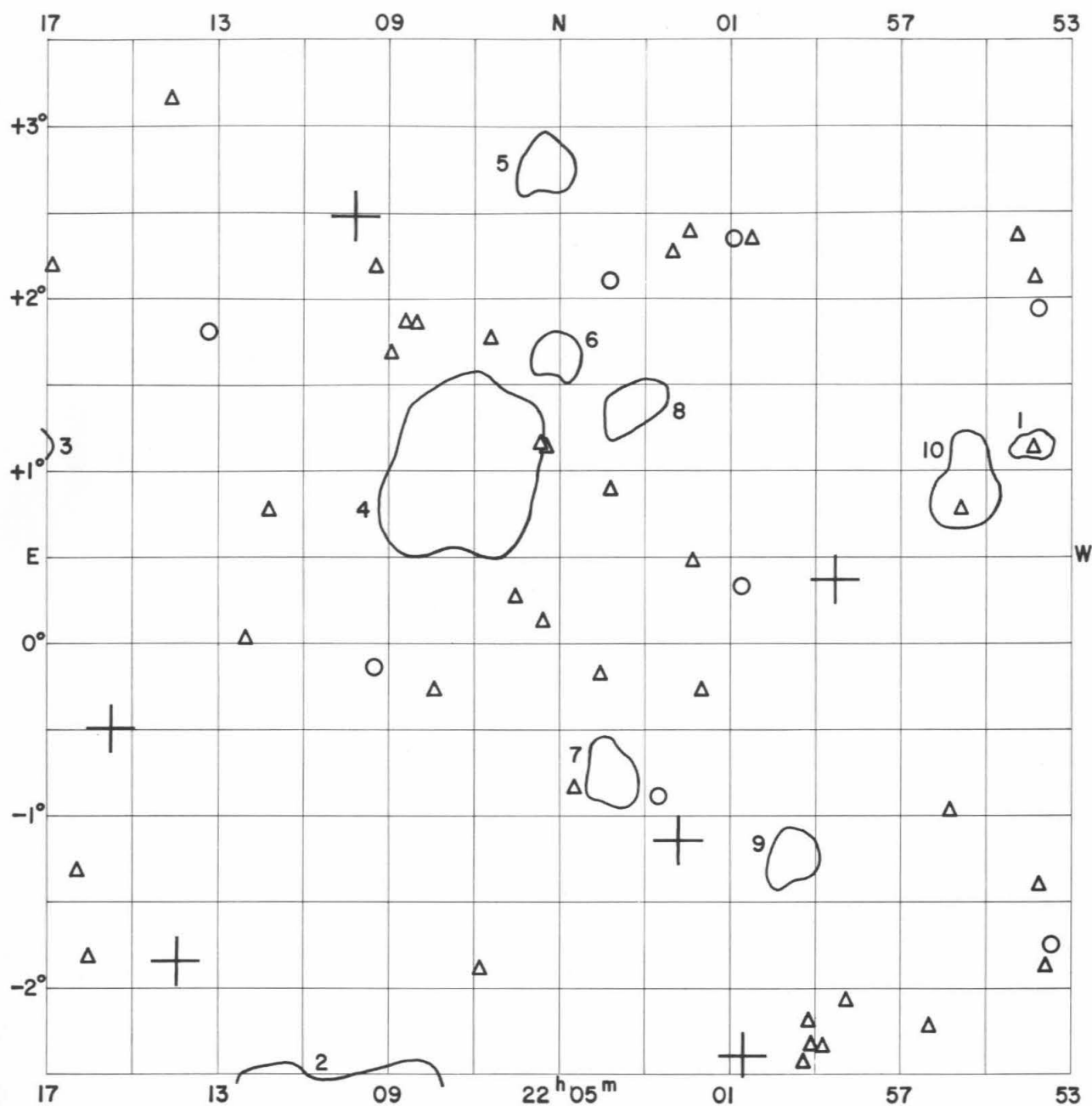
Average number of galaxies per cluster = 83.9

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	t				
21	29.2	+00	08		15.3		
21	29.2	+02	15		14.6		
21	29.3	+03	22		15.0		
21	29.7	-02	23		15.3		
21	29.9	-02	05	1390*	15.1		
21	30.1	+02	19		15.2		
21	30.1	+02	29		14.8		
21	30.2	-00	20		15.3		
21	30.5	-01	43		15.7		
21	32.5	-00	43	1391*	15.7		
21	32.5	+01	14		15.6		
21	32.6	+00	20		15.7		
21	34.2	+01	02		15.6		very compact
21	34.5	-00	48		15.4		
21	34.5	+00	13		15.6		double system
21	34.6	+00	14		15.2		double system
21	34.8	+00	11		15.5		
21	35.0	+00	23		15.6		
21	36.7	-00	43		15.4		
21	36.9	+02	36		15.4		
21	37.5	+00	59		15.0		double system
21	38.5	+01	06		14.9		
21	39.0	+00	40		15.3		
21	39.7	+02	26		15.5		
21	41.1	+02	24		15.2		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ					
h	m	o	'				
21	41.3	- 01	12		15.5		
21	41.3	- 00	33		15.3		
21	42.3	+ 01	18		15.3		
21	42.6	+ 02	53		15.2		
21	42.7	- 02	25		15.5		
21	44.4	+ 01	28	1401*	14.7		
21	45.8	- 01	54		14.3		
21	45.9	+ 01	38		15.0		
21	46.5	+ 00	13		14.8		
21	48.1	+ 00	41		15.4		
21	48.3	- 01	04		15.5		
21	48.3	+ 01	47	1405*	15.0		
21	48.5	+ 01	45	1406*	15.5		
21	48.5	+ 02	32		15.4		
21	48.6	+ 02	28		15.3		
21	48.7	- 01	53		15.1		
21	48.7	- 01	11		15.1		
21	48.7	+ 02	17		15.4		
21	49.2	+ 02	47	7146	15.5		
21	49.4	+ 02	50	7147	14.8		
21	49.5	+ 02	49		15.4		double system
21	49.6	+ 03	04	7149	14.6		
21	49.8	+ 03	12		15.1		double system
21	50.5	+ 03	28		15.6		
21	50.7	- 02	27		15.5		
21	50.8	+ 00	08		15.7		
21	51.7	+ 00	07		15.3		
21	52.0	+ 02	42	7156	13.5		





FIELD No. 377

$22^{\text{h}}05^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 1146

GC STARS

Nos.	R. A.			Decl.	m_p
	h	m	s		
30799	21	58	31.5	+ 0 21 53	5.75
30844	22	00	43.6	- 2 23 51	4.66
30872	22	02	13.1	- 1 08 57	5.23
31062	22	09	45.2	+ 2 29 12	7.02
31147	22	13	59.1	- 1 50 46	6.09
31193	22	15	30.4	- 0 29 15	6.36

CLUSTERS OF GALAXIES

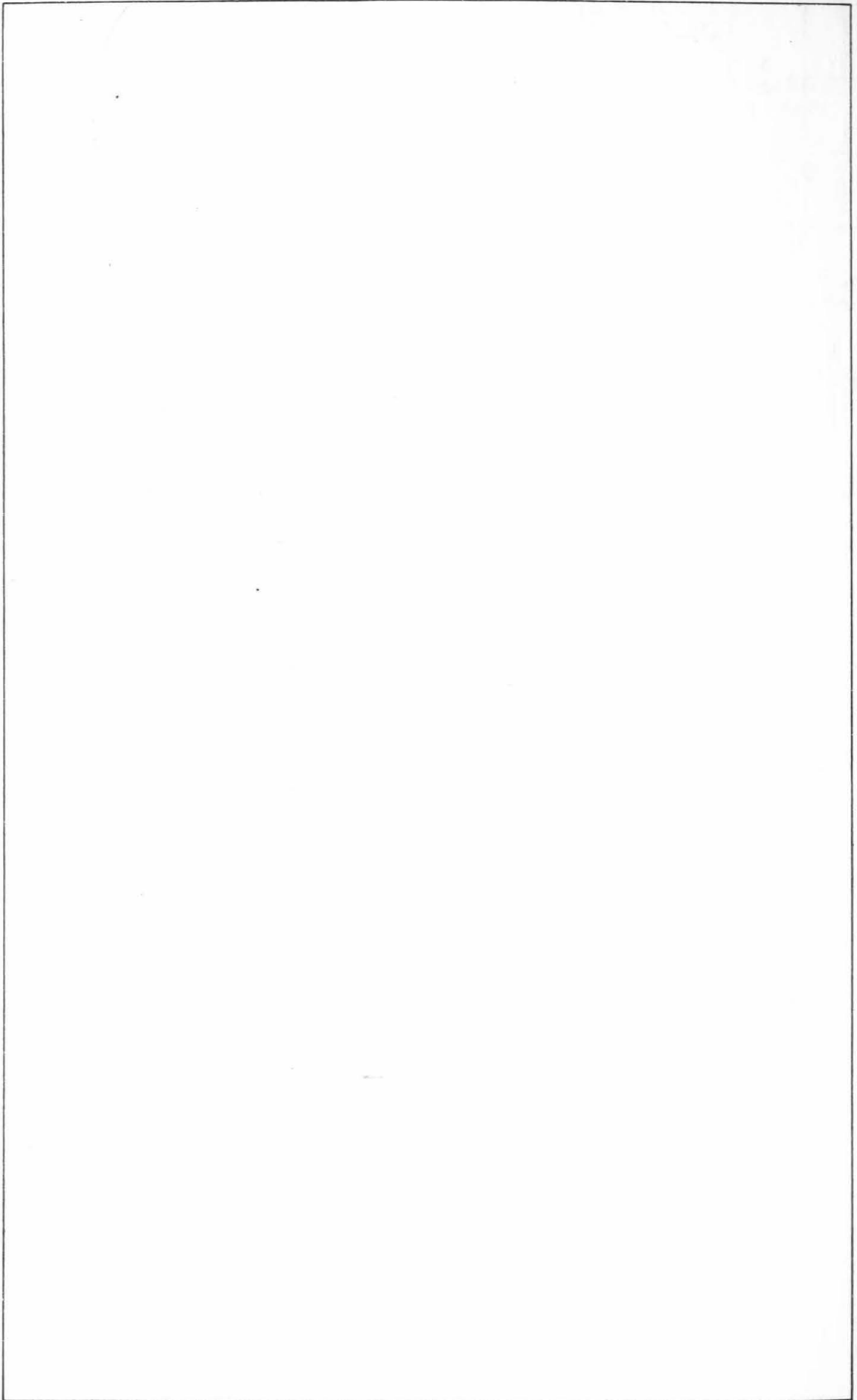
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2153.8 + 0109	compact	100	1.1	ED	1
2155.4 + 0053	medium compact	138	2.4	ED	10
2159.6 - 0115	compact	92	1.7	ED	9
2203.2 + 0122	medium compact	80	1.8	ED	8
2203.8 - 0046	medium compact	79	1.8	VD	7
2205.0 + 0139	medium compact	71	1.5	ED	6
2205.3 + 0246	open	83	1.8	ED	5
2207.1 + 0059	open	157	5.4	D	4
2210.2 - 0304	medium compact	115	6.9	MD	2
2217.2 + 0108	compact	56	1.1	ED	3

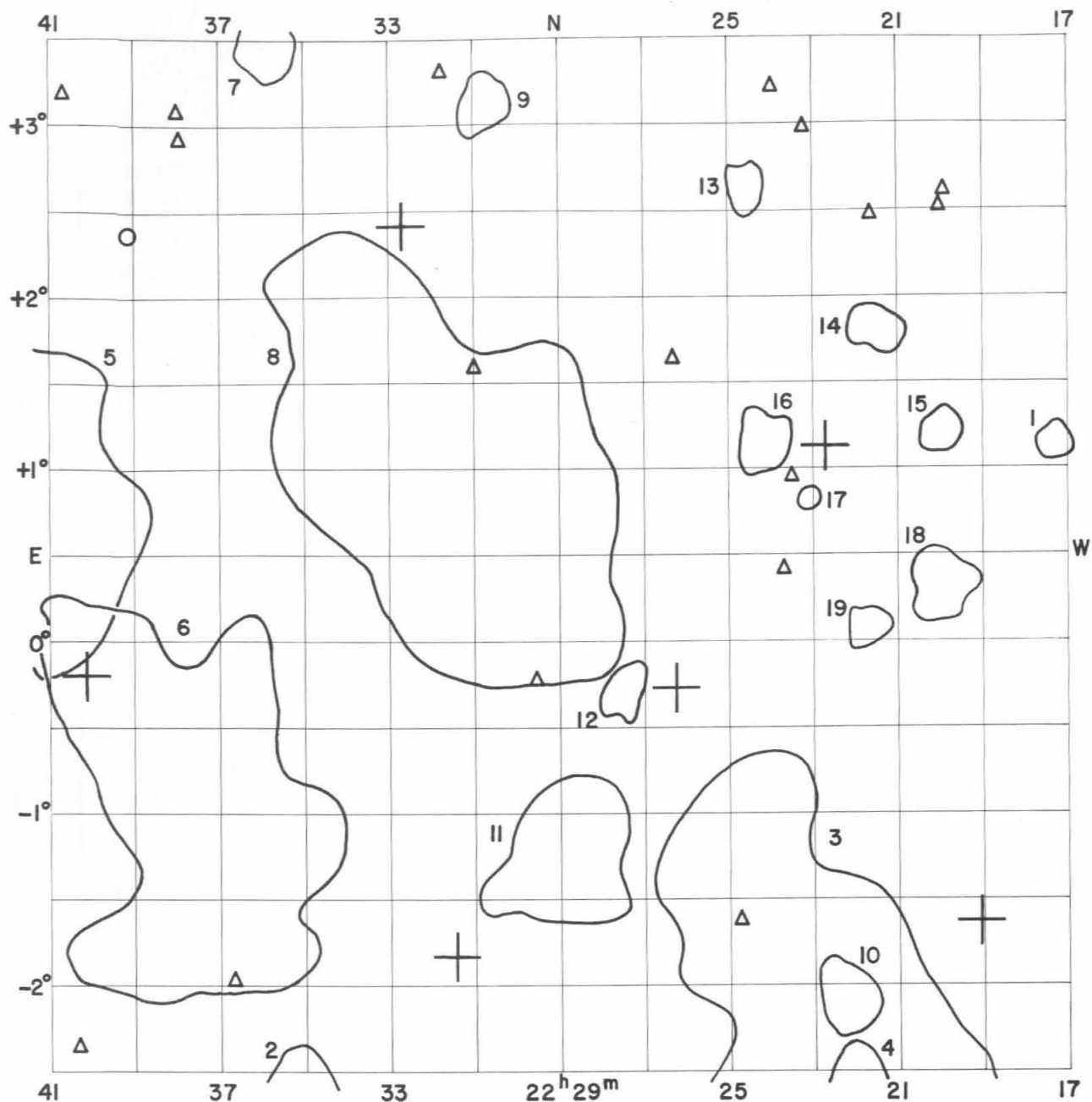
Average number of galaxies per cluster = 97.1

GALAXIES

Position a 1950 δ h m o '				NGC IC*	m_p	V_s km/sec	Remarks
21 53.5 - 01 45				1411*	14.5		
21 53.7 - 01 53				.	15.5		
21 53.8 - 01 25					15.4		
21 53.8 + 01 56					14.7		
21 53.8 + 02 07					15.7		
21 53.9 + 01 07					15.6		
21 54.2 + 02 22					15.3		
21 55.6 + 00 46					15.6		
21 55.9 - 00 58					15.7		
21 56.3 - 02 14					15.4		
21 58.3 - 02 04					15.3		
21 58.9 - 02 21					15.4		
21 59.1 - 02 20					15.6		
21 59.2 - 02 12				7181	15.4		
21 59.3 - 02 26				7182	15.6		
22 00.5 + 02 22					15.7		
22 00.7 + 00 20				7189	14.4		
22 00.9 + 02 22				1425*	15.0		
22 01.7 - 00 16					15.3		
22 01.9 + 00 28					15.3		
22 01.9 + 02 23				1428*	15.6		
22 02.3 + 02 16					15.6		
22 02.7 - 00 53				7198	14.8		
22 03.8 + 00 52					15.7		
22 03.8 + 02 06					15.0		
22 04.0 - 00 10					15.6		
22 04.7 - 00 50					15.6		
22 05.3 + 01 07					15.7		
22 05.4 + 00 07					15.4		
22 05.4 + 01 08					15.7		extremely faint with bridge
22 06.0 + 00 16				7215	15.1		
22 06.6 + 01 46					15.6		
22 06.8 - 01 53					15.4		
22 07.9 - 00 16					15.6		
22 08.4 + 01 51				7222	15.1		
22 08.6 + 01 52					15.6		
22 08.9 + 01 41					15.4		
22 09.2 + 02 10					15.3		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ					
h	m	o	'				
22	09.3	- 00	08		15.0		
22	11.8	+ 00	46		15.5		
22	12.3	+ 00	02		15.7		
22	13.2	+ 01	48	1437*	14.9		
22	14.0	+ 03	09		15.3		
22	16.0	- 01	49		15.7		
22	16.3	- 01	18		15.7		
22	16.8	+ 02	11		15.7		





FIELD No. 378

$22^{\text{h}}29^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 364

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
31257	22	19	04.4	-	1	38 24	3.97
31328	22	22	43.4	+	1	07 23	4.64
31399	22	26	15.5	-	0	16 36	4.42
31507	22	31	28.2	-	1	49 56	5.92
31528	22	32	39.1	+	2	24 49	8.7
31688	22	40	08.8	-	0	11 29	7.01

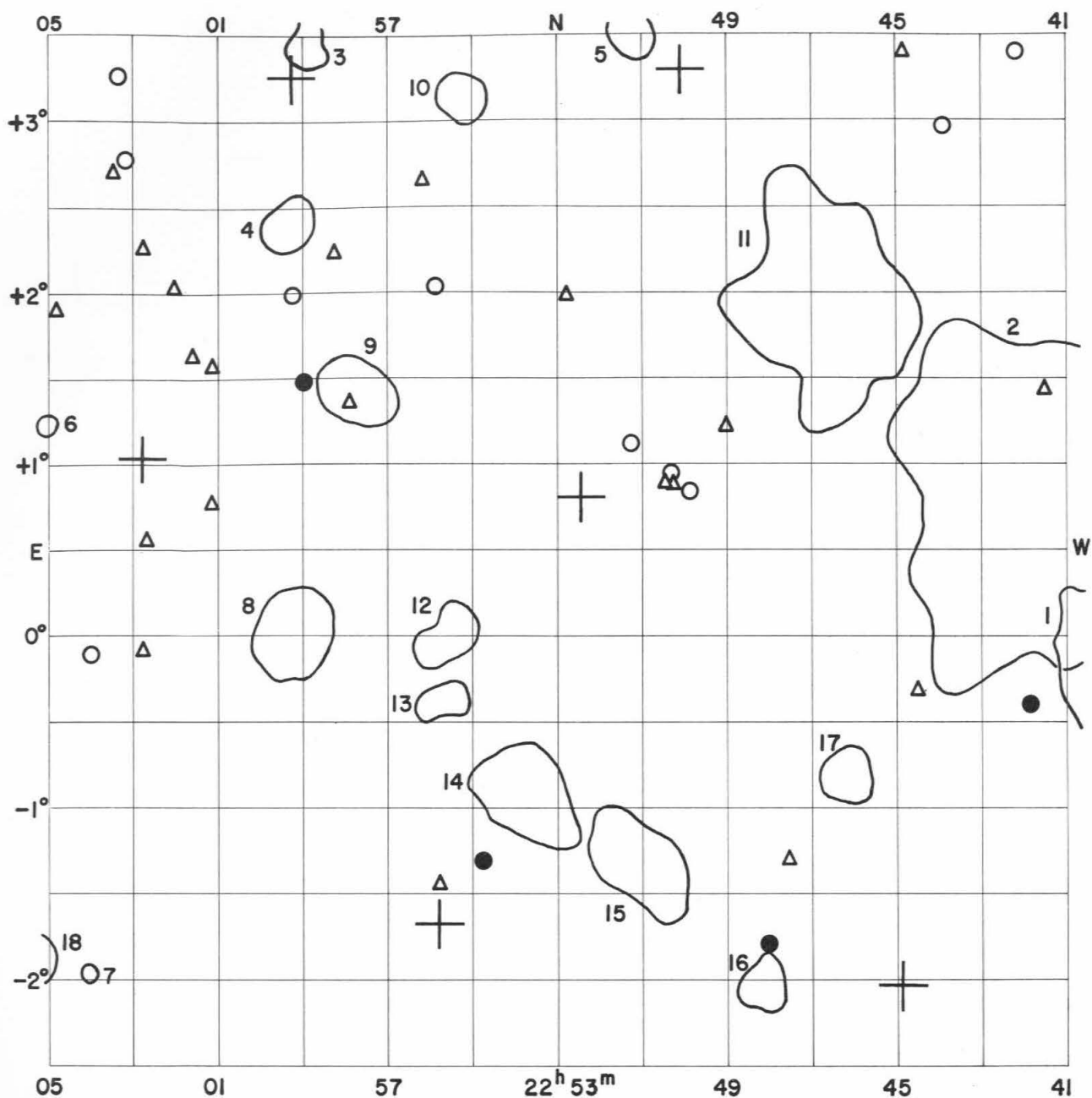
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2217.2 + 0108	compact	56	1.1	ED	1
2220.0 + 0113	compact	54	1.3	ED	15
2220.1 + 0020	medium compact	58	2.1	ED	18
2221.5 + 0149	compact	64	1.6	ED	14
2221.7 + 0005	compact	89	1.2	ED	19
2222.0 - 0235	medium compact	73	2.1	ED	4
2222.3 - 0205	medium compact	82	2.0	VD	10
2223.0 - 0232	medium compact	236	13.0	Near	3
2223.1 + 0049	compact	36	0.7	ED	17
2224.2 + 0109	medium compact	81	1.8	VD	16
2224.6 + 0238	medium compact	49	1.3	ED	13
2227.6 - 0018	medium compact	67	1.5	VD	12
2228.9 - 0116	open	85	4.5	VD	11
2230.7 + 0307	compact	65	1.8	ED	9
2231.5 + 0052	medium compact	228	11.5	Near	8
2235.2 - 0248	medium compact	88	3.8	D	2
2235.9 + 0329	medium compact	65	2.0	ED	7
2237.5 - 0100	open	170	10.0	Near	6
2241.8 + 0047	open	270	9.3	MD	5

Average number of galaxies per cluster = 100.8

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
22	19.9	+ 02	36		15.7		
22	20.0	+ 02	32		15.4		
22	21.6	+ 02	28		15.7		
22	23.2	+ 02	58		15.6		
22	23.5	+ 00	57		15.7		compact
22	23.7	+ 00	25		15.6		
22	23.9	+ 03	13		15.7		compact
22	24.8	- 01	36		15.6		double system
22	26.3	+ 01	38		15.3		
22	29.6	- 00	13		15.6		
22	31.0	+ 01	35		15.6		
22	31.7	+ 03	20		15.7		
22	36.7	- 01	58		15.7		
22	37.9	+ 02	56		15.7		
22	37.9	+ 03	05		15.2		
22	39.0	+ 02	22	5241*	14.9		
22	40.3	- 02	20		15.6		
22	40.6	+ 03	12		15.7		



FIELD No. 379

$22^{\text{h}}53^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 905

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
31796	22	44	55.3	-	2	03 10	7.58
31902	22	50	00.2	+	3	17 10	6.86
31956	22	52	26.0	+	0	47 52	6.05
32018	22	55	49.1	-	1	40 41	6.40
32087	22	59	10.7	+	3	15 45	6.51
32162	23	02	44.1	+	1	02 14	6.38

CLUSTERS OF GALAXIES

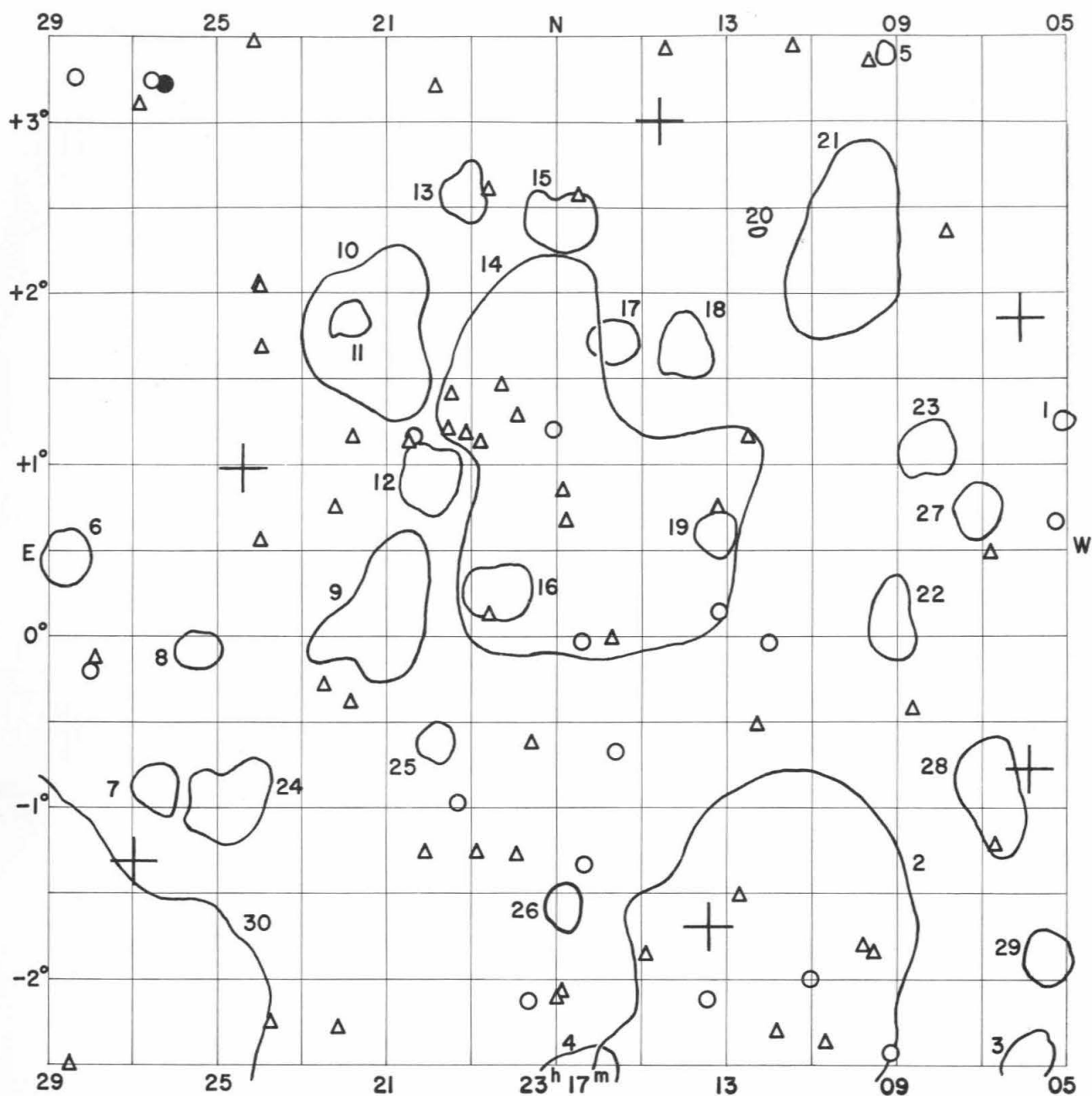
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2237.5 - 0100	open	170	10.0	Near	1
2241.8 + 0047	open	270	9.3	MD	2
2246.2 - 0049	open	80	1.7	ED	17
2246.8 + 0155	medium compact	135	6.2	D	11
2248.3 - 0203	compact	76	1.6	ED	16
2251.1 - 0119	open	129	3.0	D	15
2251.2 + 0331	compact	86	1.6	ED	5
2253.8 - 0057	medium compact	84	3.2	VD	14
2255.2 + 0309	medium compact	81	1.5	ED	10
2255.6 + 0000	medium compact	91	1.7	ED	12
2255.7 - 0022	open	70	1.3	ED	13
2257.8 + 0125	compact	108	2.3	VD	9
2258.8 + 0327	medium compact	71	1.4	VD	3
2259.2 + 0001	medium compact	132	2.7	D	8
2259.2 + 0223	compact	75	1.7	ED	4
2304.1 - 0158	compact	55	0.5	ED	7
2305.0 + 0114	compact	60	0.6	ED	6
2305.4 - 0153	compact	58	1.6	ED	18

Average number of galaxies per cluster = 101.7

GALAXIES

Position a 1950 6 h m o '	NGC IC*	m _p	V _s km/sec	Remarks
22 41.5 + 01 26		15.7		
22 41.9 - 00 23	7364	13.8		
22 42.1 + 03 25	7367	14.9		
22 43.9 + 02 57	7373	14.8		
22 44.5 - 00 18		15.5		
22 44.8 + 03 24	7376	15.6		
22 47.6 - 01 17		15.2		
22 48.1 - 01 47	7391	13.7		
22 49.1 + 01 13		15.7		double system
22 49.9 + 00 50	7396	14.1		
22 50.3 + 00 52	7397	15.3		
22 50.3 + 00 57	7398	14.9		
22 50.5 + 00 53		15.7		
22 51.3 + 01 07	1455*	14.9		
22 52.8 + 01 59		15.4		
22 54.7 - 01 18	7428	13.8		
22 55.8 - 01 27	7434	15.7		
22 55.8 + 02 02		14.9		
22 56.1 + 02 39		15.6		
22 57.8 + 01 22		15.5		
22 58.2 + 02 14		15.7		double system with bridge
22 58.9 + 01 29	7458	13.9		
22 59.2 + 02 00	7460	14.2		
23 01.1 + 00 47		15.7		
23 01.1 + 01 35		15.4		compact
23 01.6 + 01 38		15.2		
23 01.9 + 02 02		15.6		
23 02.6 + 00 33		15.7		
23 02.7 - 00 05		15.5		
23 02.7 + 02 16	7480	15.1		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ					
h	m	o	'				
23	03.1	+02	47	7482	14.6		
23	03.3	+03	16	7483	14.3		
23	03.4	+02	42		15.2		
23	03.9	-00	07		14.6		
23	04.8	+01	55		15.6		



FIELD No. 380

$23^{\text{h}}17^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 834

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
32230	23	05	51.8	-	0	46 13	7.34
32233	23	06	07.2	+	1	51 19	5.56
32377	23	13	24.1	-	1	41 48	7.14
32415	23	14	34.3	+	3	00 32	3.85
32620	23	24	22.1	+	0	58 54	4.94
32672	23	26	56.4	-	1	18 40	7.10

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2305.0 + 0114	compact	60	0.6	ED	1
2305.4 - 0153	compact	58	1.6	ED	29
2305.9 - 0229	compact	64	1.6	ED	3
2306.7 - 0055	open	120	2.7	ED	28
2307.0 + 0044	compact	74	1.5	ED	27
2308.2 + 0104	medium compact	101	1.8	ED	23
2309.0 + 0004	medium compact	108	1.9	ED	22
2309.2 + 0324	compact	60	0.7	ED	5
2310.0 + 0215	open	106	4.7	D	21
2312.2 + 0221	compact	35	0.4	ED	20
2312.5 - 0229	medium compact	153	12.8	Near	2
2313.2 + 0036	compact	71	1.3	ED	19
2313.9 + 0139	medium compact	109	1.8	VD	18
2315.6 + 0142	open	57	1.4	ED	17
2316.4 - 0238	compact	77	2.4	VD	4
2316.5 + 0046	open	181	10.3	Near	14
2316.8 - 0135	compact	54	1.3	ED	26
2316.8 + 0224	open	86	2.1	VD	15
2318.2 + 0015	open	73	1.9	ED	16
2319.1 + 0234	medium compact	112	1.5	VD	13
2319.7 - 0038	compact	56	1.1	ED	25
2319.9 + 0054	medium compact	82	2.1	D	12
2321.0 + 0006	open	81	3.7	VD	9
2321.2 + 0145	open	107	4.6	D	10
2321.8 + 0150	medium compact	60	1.2	ED	11
2324.6 - 0059	open	126	2.5	VD	24
2325.3 - 0005	medium compact	59	1.3	ED	8
2326.3 - 0054	compact	66	1.5	ED	7
2328.5 + 0027	medium compact	91	1.6	ED	6
2329.0 - 0224	open	235	13.8	Near	30

Average number of galaxies per cluster = 90.7

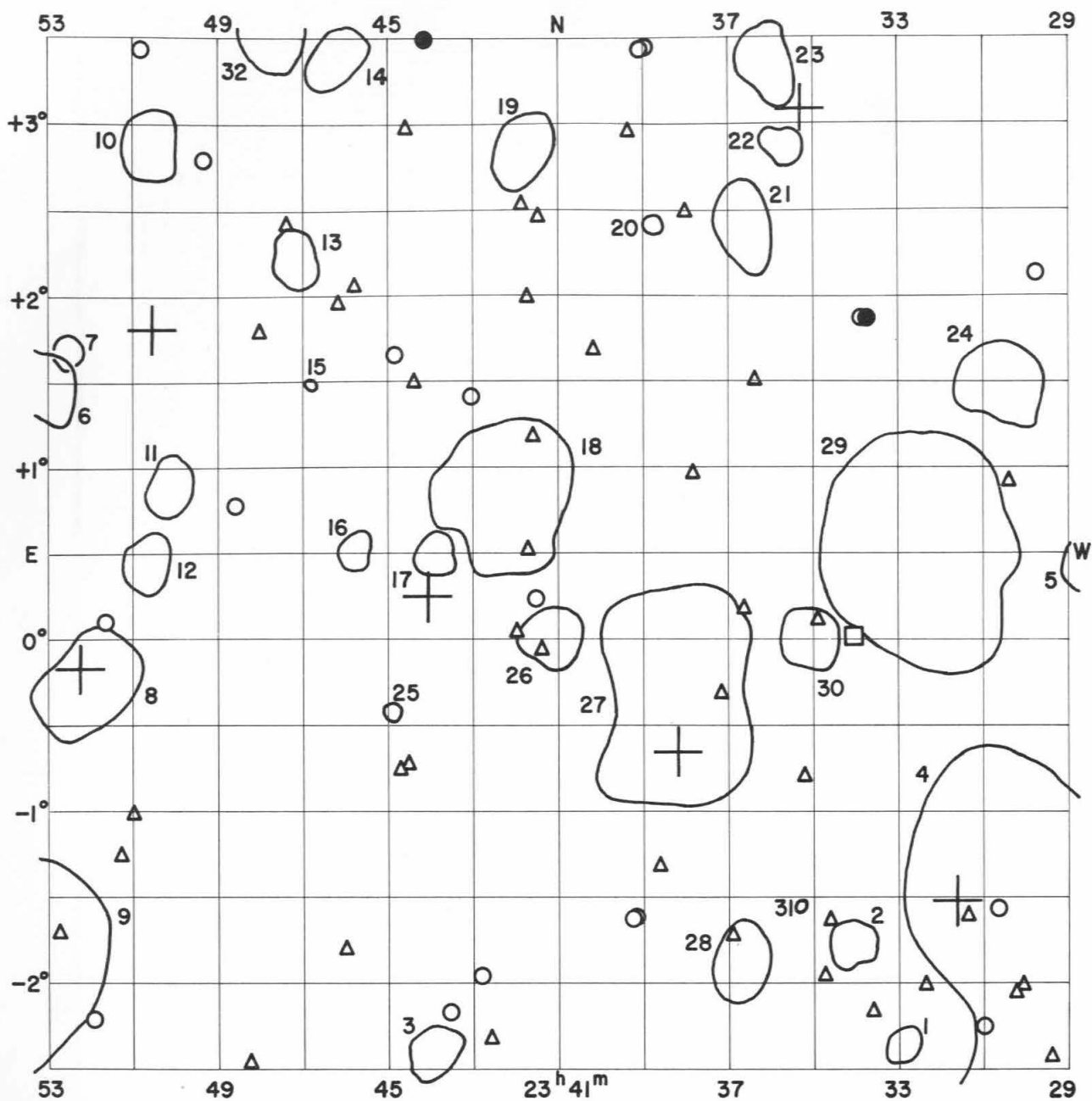
GALAXIES

Position α 1950 δ	NGC IC*	m _p	V _s km/sec	Remarks
h m o				
23 05.3 + 00 40	7488	14.9		very compact
23 06.7 - 01 13		15.7		
23 06.8 + 00 29	5287*	15.2		
23 07.9 + 02 22		15.7		
23 08.6 - 00 25		15.4		compact
23 09.2 - 02 26	7506	14.3		
23 09.6 - 01 50		15.6		
23 09.6 + 03 22		15.4		very diffuse
23 09.8 - 01 48		15.2		compact
23 10.7 - 02 23	7517	15.5		
23 11.1 - 02 00	7521	14.9		
23 11.5 + 03 26		15.4		double system
23 11.8 - 02 18		15.7		
23 12.1 - 00 02		14.4		
23 12.3 - 00 31		15.7		compact
23 12.5 + 01 10		15.7		
23 12.7 - 01 31		15.4		compact
23 13.2 + 00 09		14.9		

Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	s				
23	13.2	+00 45		15.4		double system
23	13.5	-02 07		14.9		
23	14.5	+03 26		15.7		
23	14.9	-01 52		15.3		
23	15.6	-00 39		15.0		compact
23	15.8	00 00	7589	15.4		
23	16.4	-01 20		14.9		
23	16.4	-00 01	7603	14.4		
23	16.5	+02 35		15.5		
23	16.8	+00 40		15.7		
23	16.9	-02 05		15.3		
23	16.9	+00 50		15.6		
23	17.0	-02 07		15.3		
23	17.1	+01 12		14.5		double system
23	17.6	-00 37		15.7		
23	17.7	-02 07		14.4		
23	17.9	-01 16		15.1		compact
23	17.9	+01 17		15.1		triple system
23	18.3	+01 27	1482*	15.3		compact
23	18.6	+00 07		15.7		compact
23	18.6	+02 36		15.6		
23	18.8	+01 07	7629	15.2		
23	18.9	-01 15		15.7		
23	19.1	+01 10		15.5		
23	19.3	-00 57		15.0		
23	19.5	+01 12		15.6		
23	19.5	+01 25		15.4		
23	19.8	+03 13	7524	15.7		
23	20.1	-01 15		15.6		
23	20.3	+01 10	7642	14.5		
23	20.4	+01 07		15.2		
23	21.8	-00 23		15.1		disrupted system, plume
23	21.8	+01 09		15.6		compact
23	22.1	-02 16		15.6		double system, bridge
23	22.2	+00 45	7533	15.7		
23	22.5	-00 16		15.6		double system
23	23.7	-02 15		15.6		
23	23.9	+01 40		15.7		
23	24.0	+00 33		15.6		double system
23	24.0	+02 02		15.5		
23	24.0	+02 03		15.6		
23	24.1	+03 28		15.3		
23	26.2	+03 14	7679	13.2	+ 5152	m _H = 13.1
23	26.5	+03 15	7682	14.3		
23	26.8	+03 07		15.6		diffuse
23	27.8	-00 07		15.6		very diffuse
23	27.9	-00 12	7684	14.8		
23	28.3	+03 16	7687	14.9		compact
23	28.5	-02 30		15.4		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954	Humason, Mayall, Sandage 1956		Holmberg 1958	
7679	-	-	13.23	S0	13.2	S0	- -
7682	-	-	14.00	SBa	-	-	- -



FIELD No. 381

$23^{\text{h}}41^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 431

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
32774	23	31	34.7	-	1	31 26	5.98
32839	23	35	15.5	+	3	05 37	8.0
32891	23	38	08.7	-	0	39 37	8.2
33000	23	44	00.9	+	0	15 10	7.35
33136	23	50	31.0	+	1	48 45	6.24
33165	23	52	13.0	-	0	10 07	5.98

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2328.5 + 0027	medium compact	91	1.6	ED	5
2329.0 - 0224	open	235	13.8	Near	4
2330.6 + 0128	open	87	2.7	VD	24
2332.5 + 0030	open	136	6.8	D	29
2332.9 - 0221	medium compact	58	1.1	ED	1
2334.1 - 0146	compact	55	1.5	ED	2
2335.1 + 0000	compact	156	1.9	ED	30
2335.3 - 0133	compact	27	0.4	ED	31
2335.7 + 0252	medium compact	50	1.2	ED	22
2336.1 + 0321	medium compact	85	2.1	ED	23
2336.6 + 0225	open	142	2.3	ED	21
2336.7 - 0154	medium compact	105	2.1	ED	28
2338.3 - 0022	open	101	5.8	MD	27
2338.8 + 0225	compact	30	0.6	ED	20
2341.1 + 0000	medium compact	108	1.9	ED	26
2341.8 + 0251	medium compact	126	2.2	ED	19
2342.2 + 0049	open	111	4.6	D	18
2343.9 + 0029	medium compact	66	1.2	ED	17
2344.0 - 0225	medium compact	82	1.5	ED	3
2344.9 - 0025	compact	45	0.5	ED	25
2345.7 + 0030	compact	52	1.1	ED	16
2346.1 + 0322	open	92	1.8	ED	14
2346.8 + 0129	compact	40	0.3	ED	15
2347.1 + 0212	medium compact	64	1.6	ED	13
2347.7 + 0332	open	113	2.3	ED	32
2350.1 + 0052	medium compact	87	1.6	ED	11
2350.5 + 0252	compact	101	2.1	ED	10
2350.6 + 0026	open	96	1.7	ED	12
2352.0 - 0016	medium compact	105	3.2	ED	8
2352.4 + 0140	compact	46	1.0	ED	7
2352.9 + 0128	compact	121	2.0	ED	6
2354.0 - 0143	medium compact	133	6.7	MD	9

Average number of galaxies per cluster = 92.1

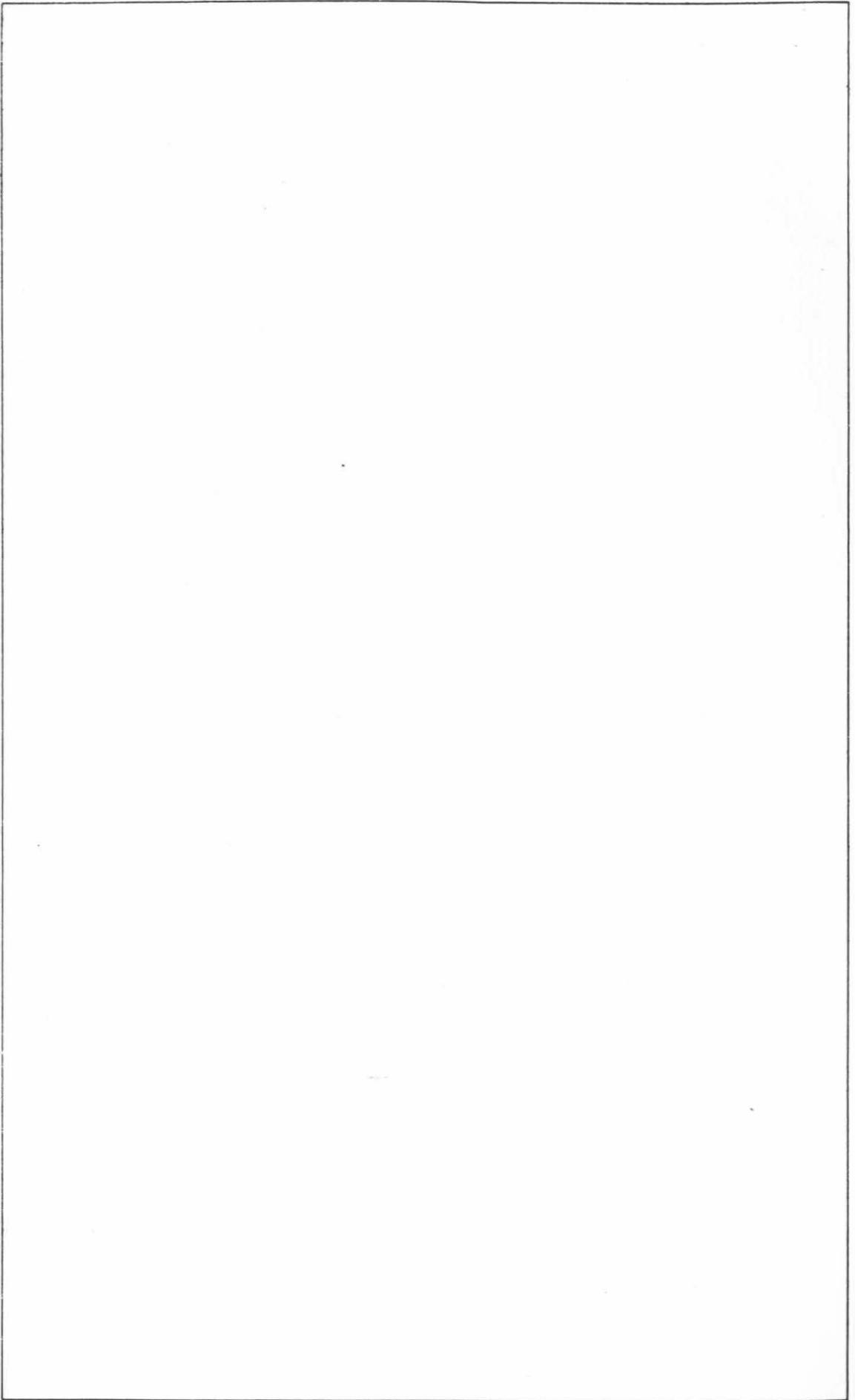
GALAXIES

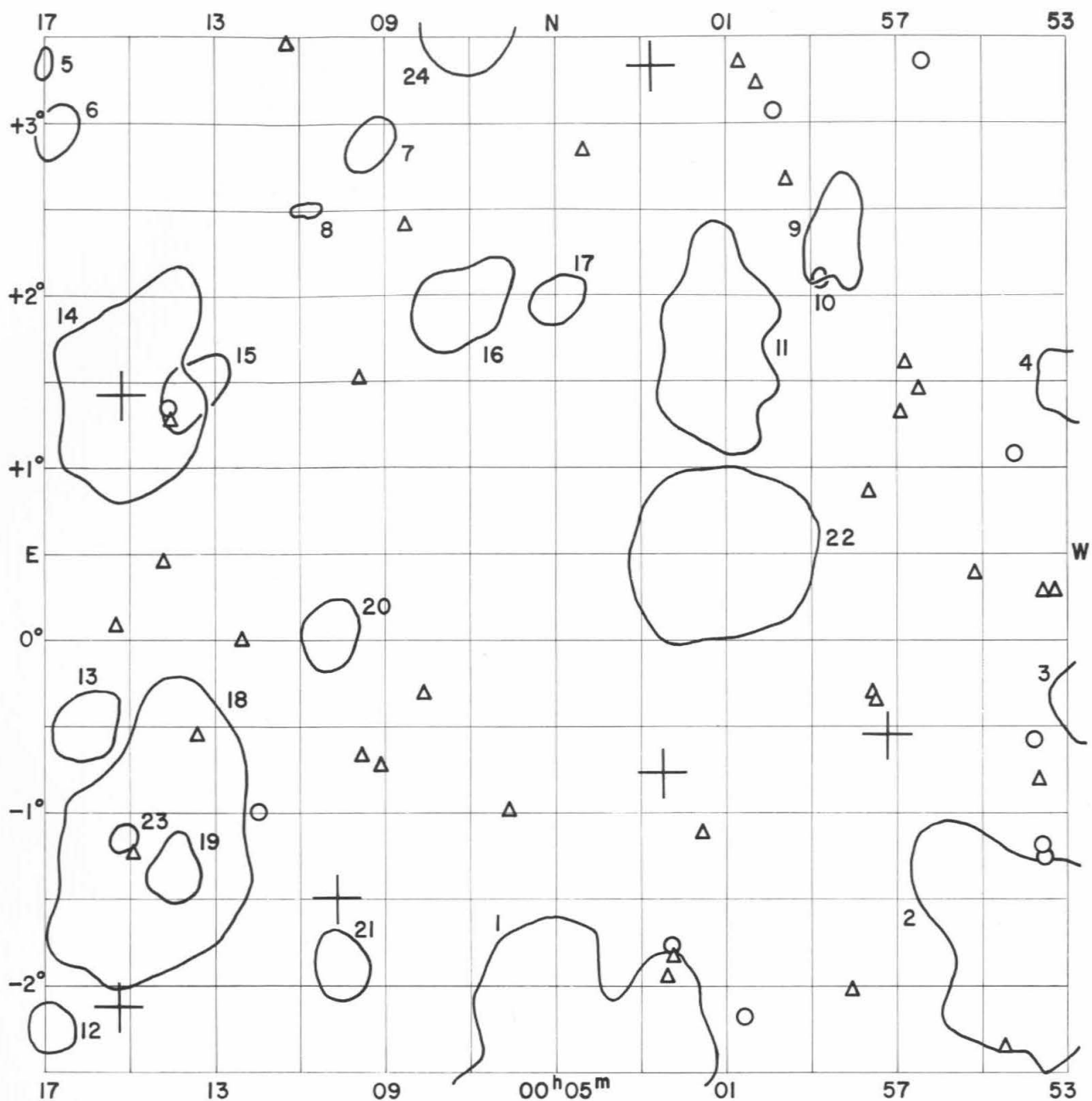
Position α 1950 δ h m s	NGC IC*	m_p	V_s km/sec	Remarks
23 29.4 - 02 26		15.1		
23 29.7 + 02 08		15.0		extremely compact
23 30.1 - 02 01		15.5		
23 30.3 - 02 03		15.6		
23 30.4 + 00 56		15.5		compact
23 30.7 - 01 33	7693	14.7		
23 31.0 - 02 15		15.0		double system
23 31.4 - 01 36		15.5		
23 32.4 - 02 01		15.7		compact
23 33.6 - 02 10		15.4		
23 33.7 + 01 53	7714	13.1	+ 2833	double system with bridge $m_H \approx 13.0$
23 33.8 + 01 53	7715	14.9	+ 2795	
23 34.0 + 00 02	7716	12.9	+ 2546	
23 34.7 - 01 37		15.6		
23 34.8 - 01 57		15.5		
23 34.9 + 00 08		15.7		extremely diffuse

Position α 1950 δ				NGC IC*	m _p	V _s km/sec	Remarks
h	m	o	i				
23	35.3	- 00	47		15.7		
23	36.4	+ 01	31		15.3		
23	36.6	+ 00	11		15.4		
23	36.9	- 01	43		15.5		
23	37.2	- 00	18		15.7		compact
23	37.9	+ 00	58		15.2		
23	38.0	+ 02	30		15.1		
23	38.7	- 01	18		15.2		
23	39.0	+ 03	28	7731	14.3		
23	39.1	+ 03	27	7732	14.5		
23	39.2	- 01	36		15.0		very compact
23	39.3	- 01	37		14.2		
23	39.4	+ 02	57		15.7		
23	40.2	+ 01	41		15.6		
23	41.4	- 00	03		15.6		compact
23	41.4	+ 02	28		15.5		
23	41.5	+ 00	14	7738=7739	14.4		
23	41.6	+ 01	11		15.6		
23	41.7	+ 00	32		15.3		
23	41.7	+ 02	00		15.2		
23	41.8	+ 02	32		15.7		
23	41.9	+ 00	03		15.1		compact
23	42.6	- 02	18		15.6		
23	42.8	- 01	57	7746	14.5		
23	43.0	+ 01	25	1507*	14.8		
23	43.5	- 02	10		14.7		
23	44.1	+ 03	30	7750	13.8		
23	44.4	+ 01	29		15.7		compact
23	44.5	- 00	43		15.6		
23	44.5	+ 02	59		15.4		
23	44.7	- 00	45		15.4		
23	44.8	+ 01	38		14.7		
23	45.7	+ 02	03		15.2		
23	45.9	- 01	47		15.6		
23	46.1	+ 01	57		15.3		
23	47.4	+ 02	25		15.7		
23	48.0	+ 01	47	1510*	15.2		double system with jets
23	48.2	- 02	28		15.4		
23	48.6	+ 00	46		14.4		
23	49.3	+ 02	48		15.0		
23	50.7	+ 03	26		14.9		
23	51.0	- 01	01		15.7		
23	51.3	- 01	15		15.2		
23	51.6	+ 00	06	7783	14.1		double system
23	51.9	- 02	13		14.9		
23	52.7	- 01	42		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956	Holmberg 1958	
7714	-	-	-	-	-	Spec	-
7715	-	-	-	-	-	SBc	-
7716	-	-	12.92	Sb	12.9	Sb	-





FIELD No. 382

$0^{\text{h}}05^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 319

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
33276	23	57	12.7	-	0	33 29	7.02
51	0	02	29.9	-	0	46 51	6.28
62	0	02	48.5	+	3	19 40	6.89
224	0	10	06.3	-	1	30 20	7.28
346	0	15	13.5	+	1	24 39	6.43
349	0	15	14.8	-	2	08 27	7.16

CLUSTERS OF GALAXIES

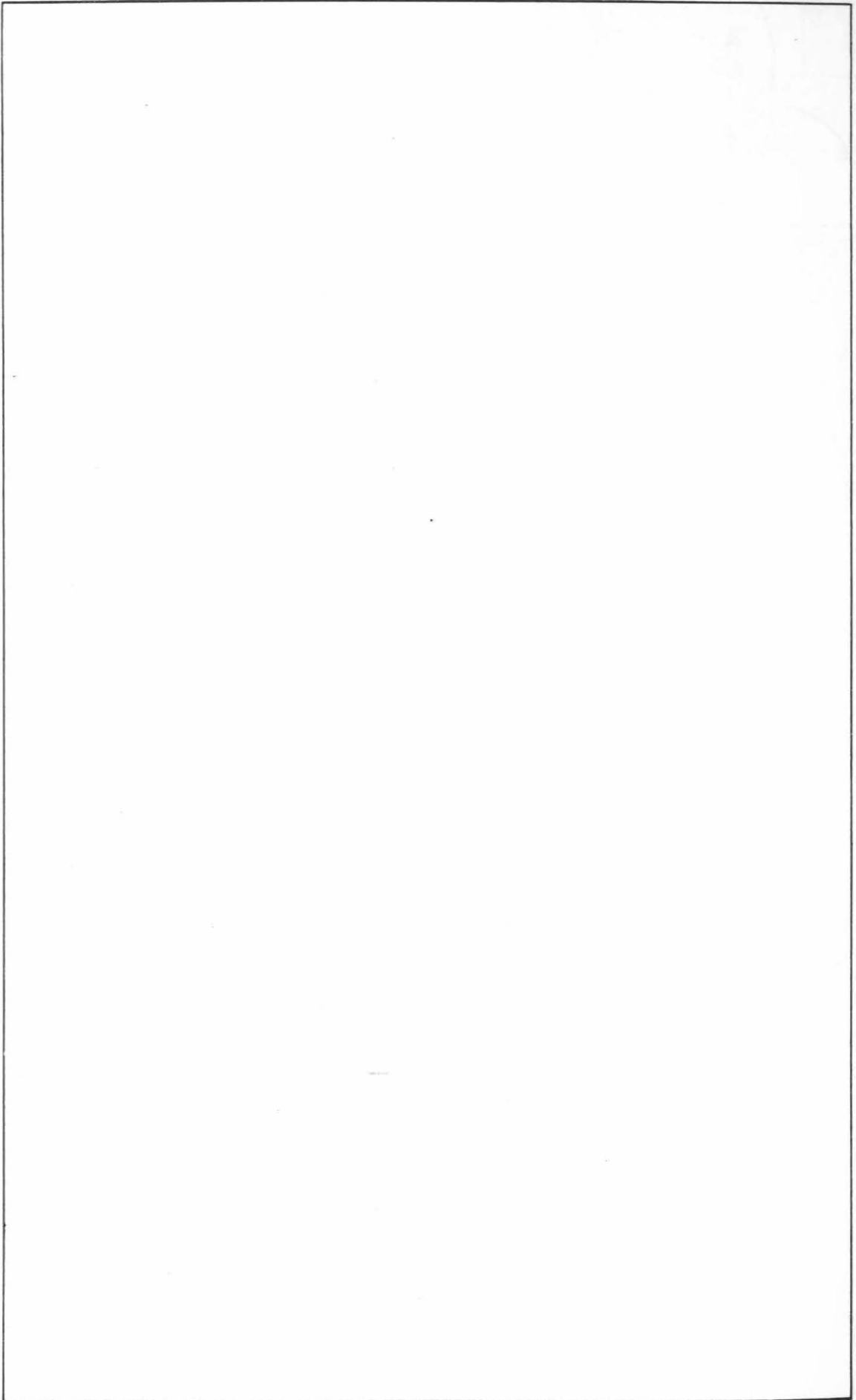
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2352.0 - 0016	medium compact	105	3.2	ED	3
2352.9 + 0128	compact	121	2.0	ED	4
2354.0 - 0143	medium compact	133	6.7	MD	2
2358.4 + 0220	open	62	2.4	VD	9
2358.8 + 0207	compact	25	0.4	ED	10
0001.1 + 0030	open	117	5.6	D	22
0001.2 + 0140	open	135	5.1	MD	11
0004.7 - 0216	open	115	7.0	MD	1
0005.0 + 0158	medium compact	67	1.6	ED	17
0006.8 + 0350	medium compact	104	4.4	MD	24
0007.3 + 0156	open	74	2.9	VD	16
0009.3 + 0253	open	66	1.5	ED	7
0010.0 - 0154	compact	100	2.0	ED	21
0010.2 + 0002	medium compact	96	2.0	ED	20
0010.8 + 0231	compact	35	0.6	ED	8
0013.4 + 0126	medium compact	104	2.1	ED	15
0013.9 - 0121	medium compact	72	1.8	VD	19
0014.4 - 0116	medium compact	148	7.7	D	18
0014.8 + 0124	open	109	5.7	D	14
0015.1 - 0108	compact	65	0.8	ED	23
0016.0 - 0030	open	67	2.2	VD	13
0016.7 + 0257	medium compact	60	1.5	ED	6
0016.8 - 0215	open	59	1.5	ED	12
0017.0 + 0320	compact	40	0.7	ED	5

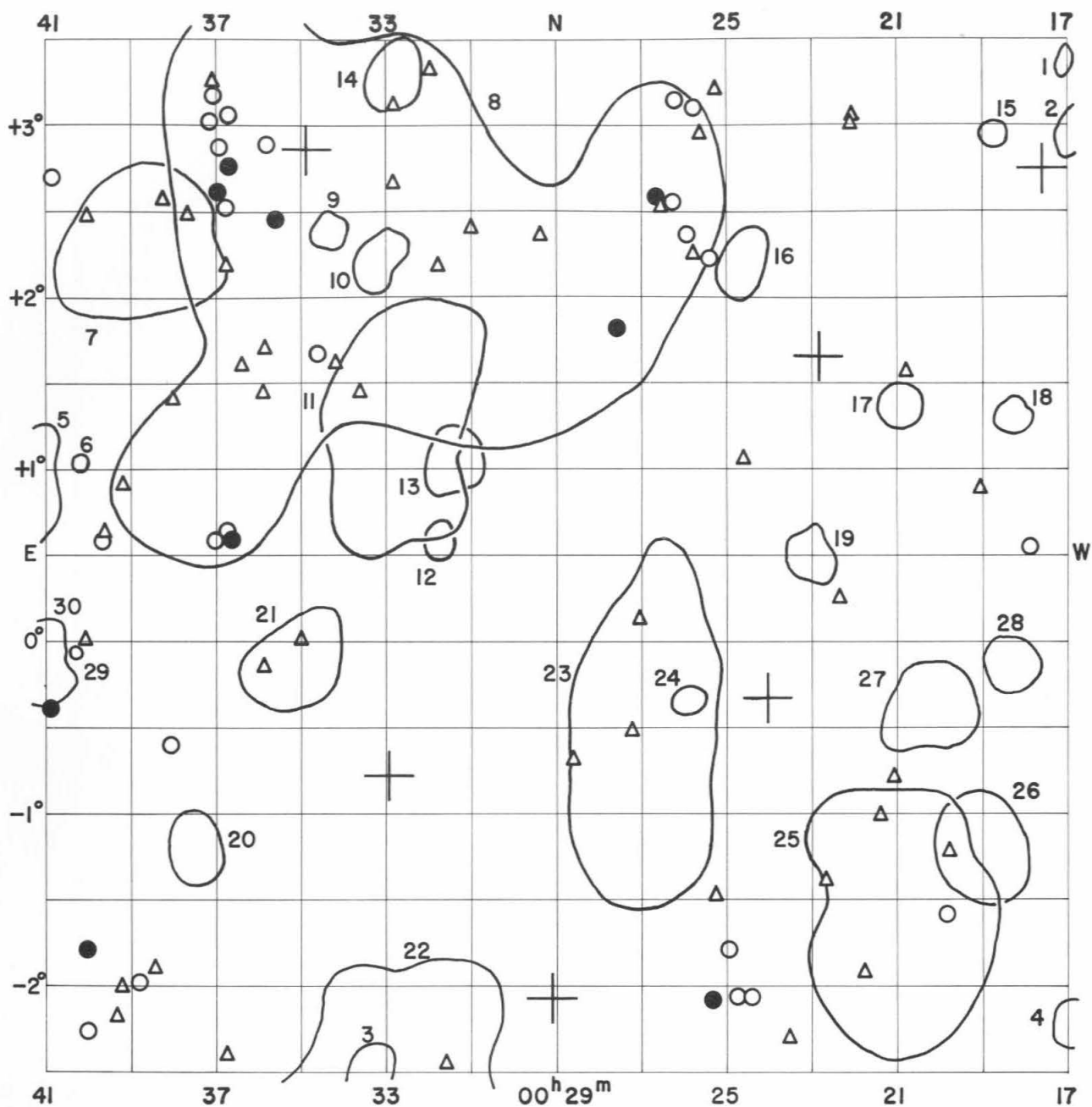
Average number of galaxies per cluster = 86.6

GALAXIES

Position α 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o				
23	53.4	+00 17		15.7		very compact
23	53.6	-01 16	1515*	14.8		
23	53.6	+00 17	7787	15.7		
23	53.7	-01 12	1516*	14.3		diffuse spiral
23	53.7	-00 48		15.4		
23	53.8	-00 34	1517*	14.8		compact
23	54.3	+01 05		14.7		
23	54.5	-02 22		15.4		very compact
23	55.2	+00 22		15.7		
23	56.4	+03 22	7797	14.8		
23	56.5	+01 26	1522*	15.3		
23	56.8	+01 36		15.6		
23	56.9	+01 18		15.5		
23	57.5	-00 21		15.6		very compact
23	57.6	-00 19		15.5		very compact
23	57.7	+00 51		15.4		
23	58.1	-02 03		15.3		
23	59.6	+02 40	7809	15.1		
23	59.9	+03 04	7811	14.9		
0	00.3	+03 13		15.6		
0	00.6	-02 11		14.3		
0	00.7	+03 20		15.3		
0	01.6	-01 08		15.6		
0	02.3	-01 51		15.1		

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
0	02.3	- 01	46		15.0		
0	02.5	- 01	57		15.7		
0	04.4	+ 02	50		15.5		triple system
0	06.1	- 01	00		15.5		
0	08.1	- 00	19		15.3		
0	08.5	+ 02	24		15.6		
0	09.1	- 00	44		15.6		
0	09.6	- 00	40	3*	15.1		compact
0	09.6	+ 01	30		15.7		double system
0	11.3	+ 03	26		15.5		
0	12.0	- 01	00		14.8		
0	12.4	- 00	01		15.6		
0	13.4	- 00	34	60	15.4		
0	14.0	+ 01	16		15.7		
0	14.0	+ 01	20		14.9		double system
0	14.2	+ 00	26		15.5		compact
0	14.9	- 01	14		15.3		
0	15.3	+ 00	03		15.5		double system





FIELD No. 383

$0^{\text{h}}29^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 591

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
404	0	17	35.5	+	2	45 23	7.99
496	0	22	50.3	+	1	39 47	5.99
523	0	24	03.4	-	0	19 35	6.40
622	0	29	07.2	-	2	04 10	6.78
701	0	32	58.7	-	0	46 48	5.93
744	0	34	55.9	+	2	51 40	6.58

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0016.7 + 0257	medium compact	60	1.5	ED	2
0016.8 - 0215	open	59	1.5	ED	4
0017.0 + 0320	compact	40	0.7	ED	1
0018.2 + 0117	medium compact	51	1.2	ED	18
0018.3 - 0009	medium compact	74	1.8	ED	28
0018.7 + 0256	compact	25	0.8	ED	15
0019.0 - 0112	medium compact	106	3.4	VD	26
0020.1 - 0023	medium compact	107	3.0	VD	27
0020.9 + 0121	medium compact	45	1.4	ED	17
0021.0 - 0137	open	166	7.3	D	25
0023.1 + 0029	compact	60	1.5	ED	19
0024.6 + 0210	compact	65	1.9	ED	16
0025.9 - 0021	medium compact	55	0.9	ED	24
0027.0 - 0036	medium compact	141	7.5	MD	23
0031.3 + 0101	compact	76	2.0	ED	13
0031.7 + 0034	compact	55	1.0	ED	12
0032.6 + 0113	open	121	6.3	MD	11
0032.6 + 0207	open	170	16.0	Near	8
0032.7 + 0317	medium compact	55	2.0	ED	14
0033.0 + 0212	medium compact	79	1.6	ED	10
0033.2 - 0312	medium compact	292	10.8	Near	22
0033.4 - 0230	medium compact	60	1.6	VD	3
0034.2 + 0223	compact	40	1.1	ED	9
0035.1 - 0007	open	105	3.1	ED	21
0037.4 - 0113	medium compact	54	1.9	VD	20
0038.6 + 0217	open	94	5.0	VD	7
0040.1 + 0101	compact	40	0.5	ED	6
0040.2 - 0004	compact	29	0.4	ED	29
0041.1 - 0008	open	57	2.2	ED	30
0041.9 + 0052	open	105	3.9	VD	5

Average number of galaxies per cluster = 82.9

GALAXIES

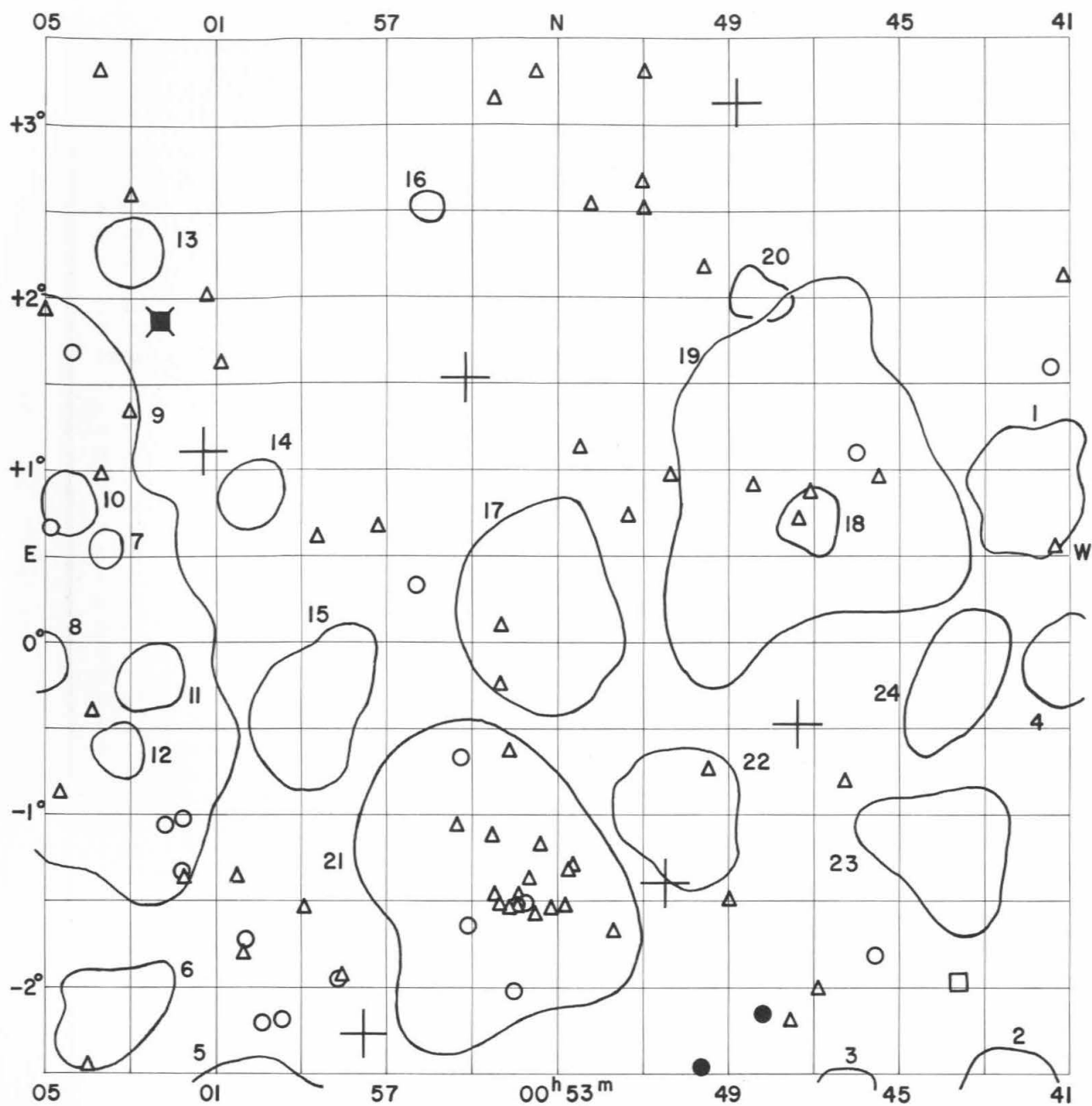
Position				NGC	m_p	V_s	Remarks
α	1950	δ		IC*		km/sec	
h	m	s					
0	17.8	+00	33	78	14.5		double system
0	18.9	+00	53		15.6		
0	19.7	-01	12		15.7		
0	19.8	-01	34		15.0		
0	20.7	+01	33		15.7		
0	21.0	-00	47		15.4		
0	21.3	-01	00		15.7		
0	21.7	-01	55		15.6		
0	21.9	+03	03		15.7		
0	22.0	+03	01		15.4		
0	22.3	+00	15		15.7		
0	22.6	-01	23		15.3		compact
0	23.6	-02	18		15.7		
0	24.5	-02	03	114	15.0		
0	24.6	+01	03	117	15.5		
0	24.7	-02	03	118	14.9		compact
0	24.9	-01	47	120	14.8		
0	25.3	-02	05	124	13.8		

Position α 1950 δ				NGC IC*	m _p	V _s km/sec	Remarks
h	m	o	'				
0	25.3	-	01 28		15.5		
0	25.3	+	03 12		15.5		
0	25.4	+	02 14		14.9		
0	25.7	+	02 57		15.7		
0	25.8	+	02 15		15.7		
0	25.8	+	03 07		15.0		double system
0	25.9	+	02 22	17*	14.8		compact
0	26.2	+	03 09		15.0		
0	26.3	+	02 33		14.2		
0	26.6	+	02 32	126	15.5		
0	26.7	+	02 35	127+128+130	13.2	+ 4172	m _H =12.9 triple system, connected
0	27.1	+	00 08		15.7		
0	27.3	-	00 31		15.6		
0	27.6	+	01 49	132	13.8		
0	28.7	-	00 40	25*	15.6		
0	29.4	+	02 21		15.7		
0	31.0	+	02 24		15.7		
0	31.6	-	02 27	29*	15.6		compact
0	31.8	+	02 10		15.7		
0	31.9	+	03 18		15.7		
0	32.8	+	02 39		15.7		
0	32.8	+	03 07		15.6		
0	33.6	+	01 26		15.3		
0	34.1	+	01 35	170	15.4		
0	34.6	+	01 40	173	14.5		diffuse spiral
0	35.1	00	00		15.4		
0	35.7	+	02 27	182	13.8	+ 5234	
0	35.9	+	01 42		15.4		
0	35.9	+	02 53	186	14.8		
0	36.0	-	00 08		15.5		
0	36.0	+	01 25		15.5		
0	36.5	+	01 36		15.6		
0	36.7	+	00 35	192	13.9		
0	36.8	-	02 24		15.6		
0	36.8	+	00 38	196+197	14.2		double system
0	36.8	+	02 45	194	13.9	+ 5105	compact
0	36.8	+	03 03	193	14.3		compact
0	36.9	+	02 10	40*	15.1		
0	36.9	+	02 31	198	14.1		
0	37.0	+	02 51	199	15.0		
0	37.1	+	00 35	201	14.7		
0	37.1	+	02 37	200	14.0		
0	37.1	+	03 10	203	15.0		
0	37.1	+	03 15	202	15.5		
0	37.2	+	03 01	204	14.6		compact
0	37.8	+	02 28	208	15.5		
0	38.0	+	01 25		15.2		compact
0	38.1	-	00 35	1571*	14.8		
0	38.3	+	02 33		15.7		
0	38.5	-	01 54		15.6		
0	38.9	-	01 59		14.4		
0	39.2	+	00 53		15.7		
0	39.3	-	02 11		15.4		
0	39.3	-	02 00		15.3		compact
0	39.7	+	00 38	219	15.6		compact
0	39.8	+	00 34	223=44*	14.5		
0	40.1	-	02 16		15.0		compact
0	40.1	-	01 48	227	13.7	+ 5315	m _H = 13.1
0	40.1	+	02 27		15.6		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ					
h	m	o	'				
0	40.2	00	00		15.7		
0	40.9	- 00	24	237	13.6		$m_H = 13.2$
0	40.9	+ 02	40	236	14.5		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
124	-	-	13.35	E1	-	-	-	-
128	-	-	12.76	S0	12.7	S0	-	-
182	-	-	13.51	Sa	13.4	Sa	-	-
194	-	-	13.19	E1	13.3	E1	-	-
227	-	-	13.53	E4	13.5	E4	-	-



FIELD No. 384

0^h 53^m + 0° 30'

Survey Plate No. 1196

GC STARS

Nos.	R. A.			Decl.			m _p
	h	m	s	o	'	"	
997	0	47	21.2	-	0	29 46	6.80
1026	0	48	43.6	+	3	06 51	6.51
1055	0	50	27.0	-	1	24 55	4.92
1146	0	55	05.4	+	1	30 55	7.29
1196	0	57	30.3	-	2	17 17	7.24
1281	1	01	14.5	+	1	05 57	6.07

CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0041.1 - 0008	open	57	2.2	ED	4
0041.4 - 0241	medium compact	82	3.4	VD	2
0041.9 + 0052	open	105	3.9	VD	1
0043.6 - 0013	medium compact	84	3.6	D	24
0044.0 - 0116	compact	107	4.3	VD	23
0046.2 - 0240	medium compact	56	1.8	ED	3
0047.1 + 0040	medium compact	85	2.0	ED	18
0047.5 + 0051	medium compact	160	10.4	MD	19
0048.2 + 0200	open	71	1.7	ED	20
0050.2 - 0102	open	110	4.2	VD	22
0053.4 + 0010	medium compact	133	5.8	MD	17
0054.6 - 0127	compact	278	9.0	Near	21
0056.0 + 0231	compact	39	1.0	ED	16
0058.6 - 0025	medium compact	97	4.2	D	15
0058.9 - 0304	medium compact	191	6.5	D	5
0100.1 + 0051	compact	57	2.1	VD	14
0102.4 - 0012	compact	138	2.1	ED	11
0102.9 + 0215	medium compact	114	2.2	ED	13
0103.1 - 0038	compact	95	1.6	ED	12
0103.3 - 0210	open	69	3.2	VD	6
0103.5 + 0032	compact	70	1.0	ED	7
0104.4 + 0048	compact	102	1.8	ED	10
0105.2 - 0007	medium compact	75	1.8	ED	8
0106.9 + 0028	open	225	17.8	Near	9

Average number of galaxies per cluster = 108.3

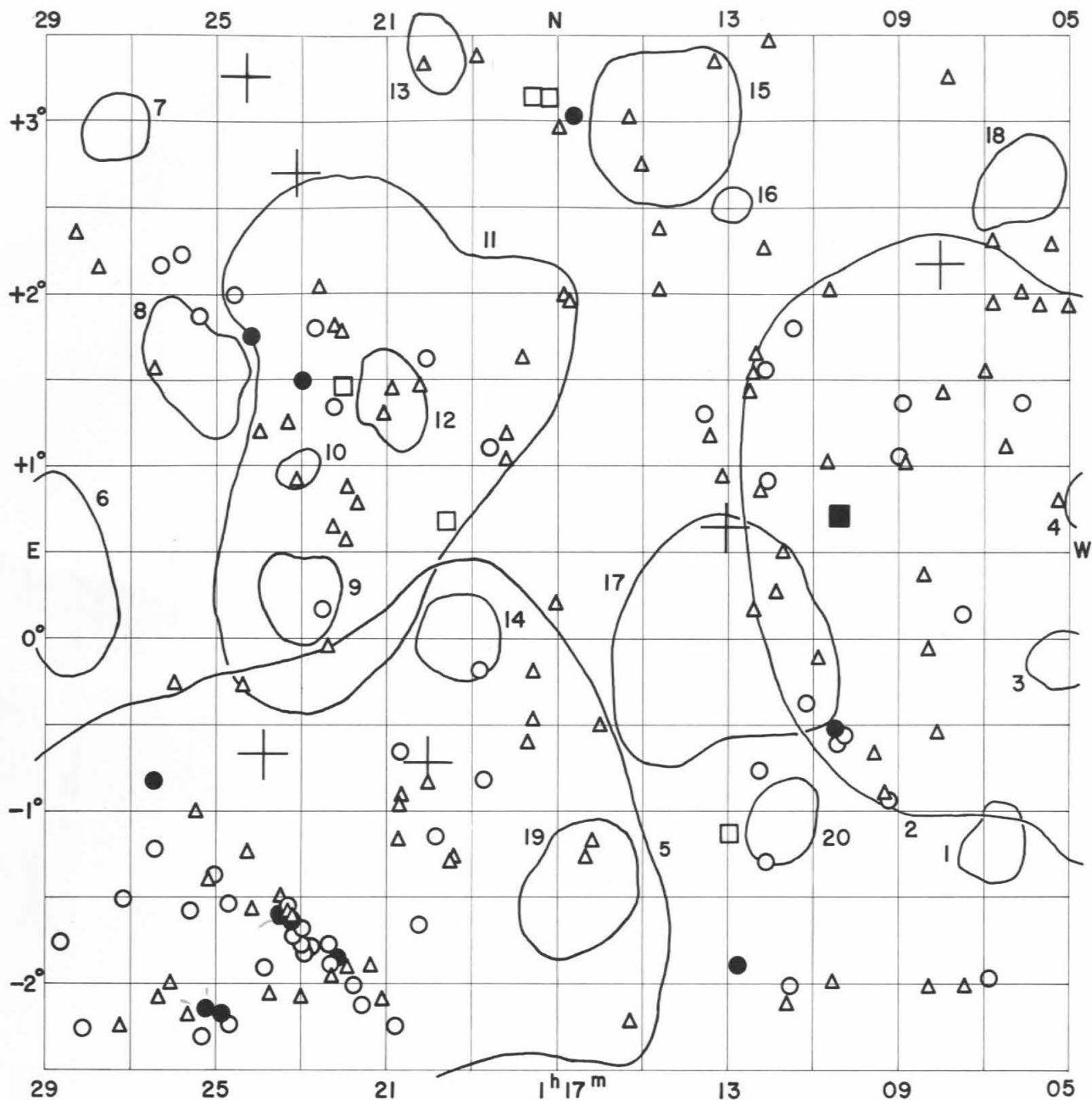
GALAXIES

Position α 1950 δ	NGC IC*	m _p	V _s km/sec	Remarks
h m o				
0 41.1 + 02 07		15.7		compact
0 41.3 + 00 33		15.4		
0 41.4 + 01 35	49*	14.5		
0 43.5 - 01 59	245	12.9		m _H = 12.9 S
0 45.4 + 00 57		15.5		
0 45.5 - 01 49		14.6		
0 45.9 + 01 05		14.6		double system
0 46.2 - 00 49		15.7		
0 46.9 - 02 01		15.1		
0 47.1 + 00 51		15.2		
0 47.4 + 00 43		15.7		
0 47.6 - 02 12		15.5		
0 48.2 - 02 09	271	13.2		
0 48.5 + 00 52		15.6		
0 49.0 - 01 30		15.4		
0 49.5 - 00 44		15.1		
0 49.6 + 02 10		15.7		
0 49.7 - 02 28	279	14.0		
0 50.4 + 00 57		15.7		
0 50.9 + 02 30		15.4		
0 51.0 + 02 40		15.7		
0 51.0 + 03 19		15.6		compact
0 51.4 + 00 43		15.5		
0 51.7 - 01 41		15.7		

Position a 1950 δ				NGC IC*	m_p	V_s km/sec	Remarks
h	m	o	'				
0	52.2	+02	32		15.6		double system
0	52.5	+01	07		15.1		
0	52.7	-01	18		15.7		compact
0	52.8	-01	31		15.2		
0	52.8	-01	20		15.7		
0	53.2	-01	33		15.7		
0	53.4	-01	10		15.3		double system
0	53.5	-01	35		15.4		very compact
0	53.5	+03	18		15.5		
0	53.7	-01	30		15.0		
0	53.7	-01	22		15.6		compact
0	53.8	-01	28		15.3		
0	53.9	-01	32		15.6		compact
0	53.9	-01	31		14.9		
0	54.0	-02	02	307	14.1		
0	54.1	-01	33		15.5		
0	54.2	-00	37		15.4		
0	54.3	-01	31		15.4		
0	54.3	-00	15		15.4		compact
0	54.3	+00	05		15.6		
0	54.4	-01	28		15.3		
0	54.5	-01	07		15.1		
0	54.5	+03	09		15.7		
0	55.1	-01	38		14.8		compact = 3C29
0	55.2	-00	40		14.7		double system
0	55.4	-01	03		15.7		extremely compact
0	56.3	+00	20	1607*	14.5		
0	57.2	+00	40		15.4		
0	58.0	-01	57		15.6		
0	58.1	-01	58		15.0		
0	58.7	+00	35		15.5		
0	59.0	-01	33		15.7		
0	59.5	-02	11	351	14.3		
1	00.0	-02	12	353	14.7		
1	00.4	-01	49		15.7		
1	00.4	-01	43		15.0		
1	00.6	-01	22		15.6		
1	01.0	+01	37		15.6		
1	01.3	+02	01		15.6		
1	01.8	-01	22		15.7		
1	01.8	-01	19		14.9		
1	01.8	-01	01	359	14.8		
1	02.2	-01	03		14.6		
1	02.4	+01	53	1613*	10.7	- 238	resolved dwarf system
1	03.0	+02	35		15.6		double system
1	03.1	+01	20		15.7		compact
1	03.7	+00	58		15.6		
1	03.8	+03	19		15.2		
1	03.9	-00	23		15.7		compact
1	04.1	-02	27		15.5		diffuse
1	04.4	+01	41		15.0		compact
1	04.7	-00	53		15.1		
1	04.9	+00	40	391	14.6		
1	05.0	+01	55		15.5		double system

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951	Pettit 1954	Humason, Mayall, Sandage 1956	Holmberg 1958
1613*	- -	10.86 Irr.	- Irr.	10.00 IrI



FIELD No. 385

$1^{\text{h}}17^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 1259

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	t	n	
1422	1	07	59.0	+	2	10 48	6.20
1513	1	13	01.5	+	0	38 54	6.70
1655	1	20	01.2	-	0	42 38	6.46
1724	1	23	05.6	+	2	42 45	6.96
1738	1	23	53.6	-	0	39 29	6.49
1745	1	24	18.3	+	3	16 35	6.42

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0104.4 + 0048	compact	102	1.8	ED	4
0105.2 - 0007	medium compact	75	1.8	ED	3
0106.1 + 0240	open	75	2.7	ED	18
0106.7 - 0112	open	55	2.2	ED	1
0106.9 + 0028	open	225	17.8	Near	2
0111.7 - 0104	open	83	2.5	ED	20
0112.9 + 0231	medium compact	45	1.1	ED	16
0113.2 - 0004	medium compact	159	7.4	MD	17
0114.5 + 0259	open	114	4.9	D	15
0116.4 - 0128	medium compact	83	3.9	VD	19
0119.2 + 0000	compact	131	2.6	ED	14
0119.8 + 0323	open	78	2.1	ED	13
0120.8 + 0123	medium compact	118	2.5	VD	12
0121.5 + 0113	open	160	12.8	Near	11
0123.0 + 0013	medium compact	78	2.7	VD	9
0123.0 + 0058	medium compact	45	1.2	ED	10
0123.6 - 0133	open	262	20.2	Near	5
0125.5 + 0133	medium compact	82	3.5	VD	8
0127.3 + 0258	medium compact	63	2.1	ED	7
0128.7 + 0022	medium compact	83	5.3	D	6

Average number of galaxies per cluster = 105.8

GALAXIES

Position a 1950 δ h m o	NGC IC*	m_p	V_s km/sec	Remarks
1 05.0 + 01 55		15.5		double system
1 05.3 + 00 48		15.4		
1 05.4 + 02 17		15.5		
1 05.7 + 01 56		15.5		double system
1 06.1 + 01 23		14.8		
1 06.1 + 02 00		15.1		multiple system
1 06.5 + 01 07		15.1		
1 06.8 + 01 57		15.4		double system
1 06.8 + 02 18	1629*	15.7		
1 06.9 - 01 57	81*	14.8		compact
1 07.0 + 01 34		15.6		
1 07.4 - 02 01		15.1		diffuse
1 07.5 + 00 09		15.0		
1 07.8 + 03 15		15.4		compact
1 08.0 + 01 25	83*	15.2		
1 08.1 - 00 32		15.6		diffuse
1 08.3 - 02 01		15.5		
1 08.3 - 00 04		15.7		
1 08.4 + 00 22		15.7		
1 08.8 + 01 01		15.7		
1 08.9 + 01 23	84*	15.0		
1 09.0 + 01 04		14.2		
1 09.2 - 00 55	1639*	14.2		
1 09.3 - 00 53	1640*	15.1		
1 09.6 - 00 40	1643*	15.4		$m_H = 11.9 S$
1 10.3 - 00 33	426	14.4		
1 10.4 - 00 36	429	14.4		
1 10.4 + 00 43	428	11.9	+1078	

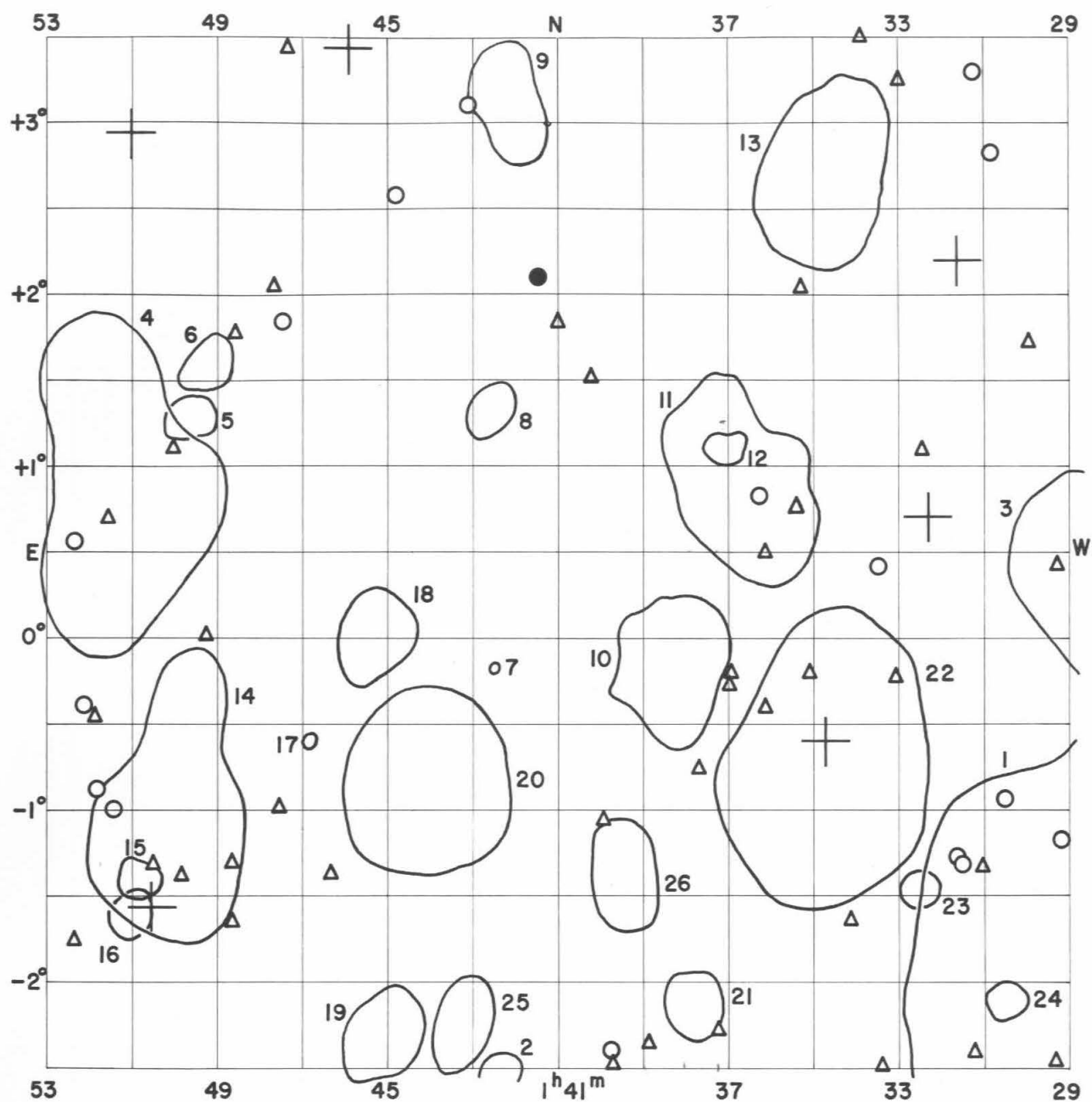
Position a 1950 δ h m o ' ,				NGC IC*	m_p	V_s km/sec	Remarks
1 10.5 - 00 31				430	13.6		
1 10.6 - 01 59					15.7		
1 10.6 + 02 01					15.4		compact
1 10.7 + 01 01					15.2		
1 10.9 - 00 06					15.7		
1 11.1 - 00 21					15.0		
1 11.4 + 01 48				435	15.0		
1 11.6 - 02 07					15.1		
1 11.6 - 02 00					15.0		
1 11.7 + 00 30				87*	15.4		
1 11.9 + 00 16					15.6		
1 12.0 + 03 28					15.5		compact
1 12.1 - 01 17				442	14.5		
1 12.1 + 00 55					15.0		
1 12.1 + 01 34					15.0		
1 12.1 + 02 16					15.6		
1 12.2 + 00 51					15.1		
1 12.3 - 00 45					14.5		double nebula
1 12.3 + 01 40				445	15.5		
1 12.4 + 00 10					15.5		
1 12.4 + 01 25					15.5		
1 12.4 + 01 32					15.2		
1 12.8 - 01 53				448	13.2		
1 13.0 - 01 07				450	13.0		$m_H = 12.6$ S double system
1 13.1 + 00 56					15.7		
1 13.3 + 03 20					15.2		
1 13.4 + 01 10					15.7		
1 13.5 + 01 18					15.0		
1 14.6 + 02 01					15.7		
1 14.6 + 02 23					15.7		
1 15.0 + 02 45					15.7		
1 15.3 - 02 13					15.6		extremely diffuse
1 15.3 + 03 02					15.6		double system
1 16.1 - 00 30					15.1		double system
1 16.2 - 01 10					15.4		
1 16.4 - 01 16					15.4	+ 4855	
1 16.6 + 03 02				467	13.3		
1 16.7 + 01 57					15.7		
1 16.8 + 01 59					15.7		
1 16.9 + 02 58					15.4		
1 17.0 + 00 12					15.7		
1 17.2 + 03 08				470	12.4		$m_H = 12.4$ Sc
1 17.5 + 03 09				474	12.9	+ 2306	$m_H = 12.6$ E
1 17.6 - 00 28					15.6		very diffuse
1 17.6 - 00 11					15.3		
1 17.7 - 00 36					15.5		
1 17.8 + 01 37					15.7		
1 18.2 + 01 02					15.5		
1 18.2 + 01 10					15.2		diffuse
1 18.6 + 01 06					14.3		
1 18.7 - 00 48					14.5		
1 18.8 - 00 10				1681*	14.8		
1 18.9 + 03 22					15.5		
1 19.4 - 01 18					15.1		compact
1 19.4 - 01 16					15.7		
1 19.6 + 00 41				493	13.0		
1 19.8 - 01 08				497	14.1	+ 8030	
1 20.0 - 00 50					15.6		compact
1 20.0 + 01 37					14.9		

Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o				
1	20.1	+03 20		15.1		
1	20.2	-01 39		14.6	+ 5651	
1	20.2	+01 27		15.7		
1	20.6	-00 54		15.2		
1	20.6	-00 39		14.9		
1	20.7	-01 10		15.5	+ 7707	✓
1	20.7	-00 57		15.7		
1	20.8	-02 14		14.8	+ 4730	✓
1	20.9	+01 26		15.5		
1	21.0	+01 18		15.7		
1	21.1	-02 05		15.5	+ 5648	✓
1	21.4	-01 54		15.6	+ 5932	✓
1	21.6	-02 07		14.7	+ 5173	
1	21.6	+00 47		15.7		
1	21.8	-02 00		14.9	+ 5275	
1	21.9	-01 54	519	15.3	+ 5332	
1	21.9	+00 34		15.6		
1	21.9	+00 52		15.2		
1	22.0	+01 28	521	12.9		$m_H = 13.0$
1	22.0	+01 46	103*	15.3		
1	22.1	-01 50	530=106*	14.0	+ 5016	
1	22.1	+01 49	105*	15.6		
1	22.2	+00 39		15.2		
1	22.2	+01 20	1694*	14.9		
1	22.3	-01 56		15.7	+ 5229	
1	22.3	-01 52	1696*	14.7	+ 5768	
1	22.3	-01 45		15.0	+ 4788	
1	22.3	-00 03		15.6		
1	22.5	+00 10	1697*	14.9		
1	22.6	+01 48	109*	14.9		
1	22.6	+02 02		15.5		
1	22.7	-01 46		14.8	+ 5118	
1	22.9	-01 48	538	14.7	+ 5398	
1	22.9	+01 29	533	13.1		$m_H = 13.0$
1	23.0	-02 04		15.7		
1	23.0	-01 45		14.8	+ 6591	
1	23.0	-01 39	535	14.9	+ 4939	
1	23.1	+00 55		15.4		
1	23.2	-01 42		15.0	+ 5321	
1	23.2	-01 35		15.2	+ 5469	
1	23.2	-01 37	541	14.0	+ 5392	
1	23.3	-01 34		15.2	+ 5374	
1	23.3	-01 32	543	15.0	+ 5238	
1	23.3	+01 14		15.3		very diffuse
1	23.4	-01 35	545	13.7	+ 5316	double system in common halo
1	23.5	-01 36	547	13.4	+ 5472	
1	23.5	-01 29	548	15.1	+ 5332	
1	23.7	-02 03		15.6	+ 5110	
1	23.8	-01 54	1703*	14.9	+ 5688	
1	23.9	+01 11		15.6		compact
1	24.1	-01 34		15.2		
1	24.1	+01 45	550	13.6		
1	24.2	-01 14		15.2	+ 5005	
1	24.3	-00 16		15.4		
1	24.6	+02 00		15.0		
1	24.7	-02 14	558	15.0	+ 5018	
1	24.7	-01 31		14.9	+ 4794	
1	24.9	-02 10	560	14.0	+ 5454	
1	25.0	-01 21		14.8	+ 4661	

Position a 1950 δ				NGC IC*	m_p	V_s km/sec	Remarks
h	m	o	i				
1	25.1	- 01	23		15.1	+ 5174	
1	25.2	- 02	08	564	13.8	+ 5704	
1	25.3	- 02	17	119*	15.0	+ 6203	
1	25.3	+ 01	53		15.0		compact
1	25.5	- 01	00		15.6		
1	25.6	- 02	10	120*	15.2	+ 4900	
1	25.6	- 01	33	565	14.5	+ 4464	
1	25.8	+ 02	15	121*	14.3		
1	25.9	- 00	15		15.4		
1	26.0	- 01	59		15.1	+ 6271	
1	26.2	+ 02	10	123*	15.0		
1	26.4	- 02	04		15.7		diffuse
1	26.4	- 01	12	570	14.2	+ 5502	
1	26.4	- 00	49		14.0		
1	26.4	+ 01	34		15.7		diffuse
1	27.2	- 02	14	126*	15.7		
1	27.2	- 01	30		14.7		
1	27.7	+ 02	09		15.4		compact
1	28.1	- 02	15	577=580	14.2		
1	28.2	+ 02	20		15.5		
1	28.6	- 01	45		14.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
428	-	-	11.85	Sc	11.8	Sc	11.74	Sc +
474	-	-	13.29	E0	13.0	E0	-	-
560	-	-	14.01	S0	14.0	S0	-	-
564	-	-	14.22	E3	13.8	E3	-	-



FIELD No. 386

$1^h 41^m + 0^\circ 30'$

Survey Plate No. 362

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
1893	1	31	32.8	+	2	11 31	8.1
1909	1	32	14.0	+	0	41 35	7.02
1960	1	34	42.6	-	0	36 14	7.03
2196	1	45	50.4	+	3	26 12	6.00
2286	1	50	33.9	-	1	34 05	7.43
2293	1	50	57.8	+	2	56 29	4.84

CLUSTERS OF GALAXIES

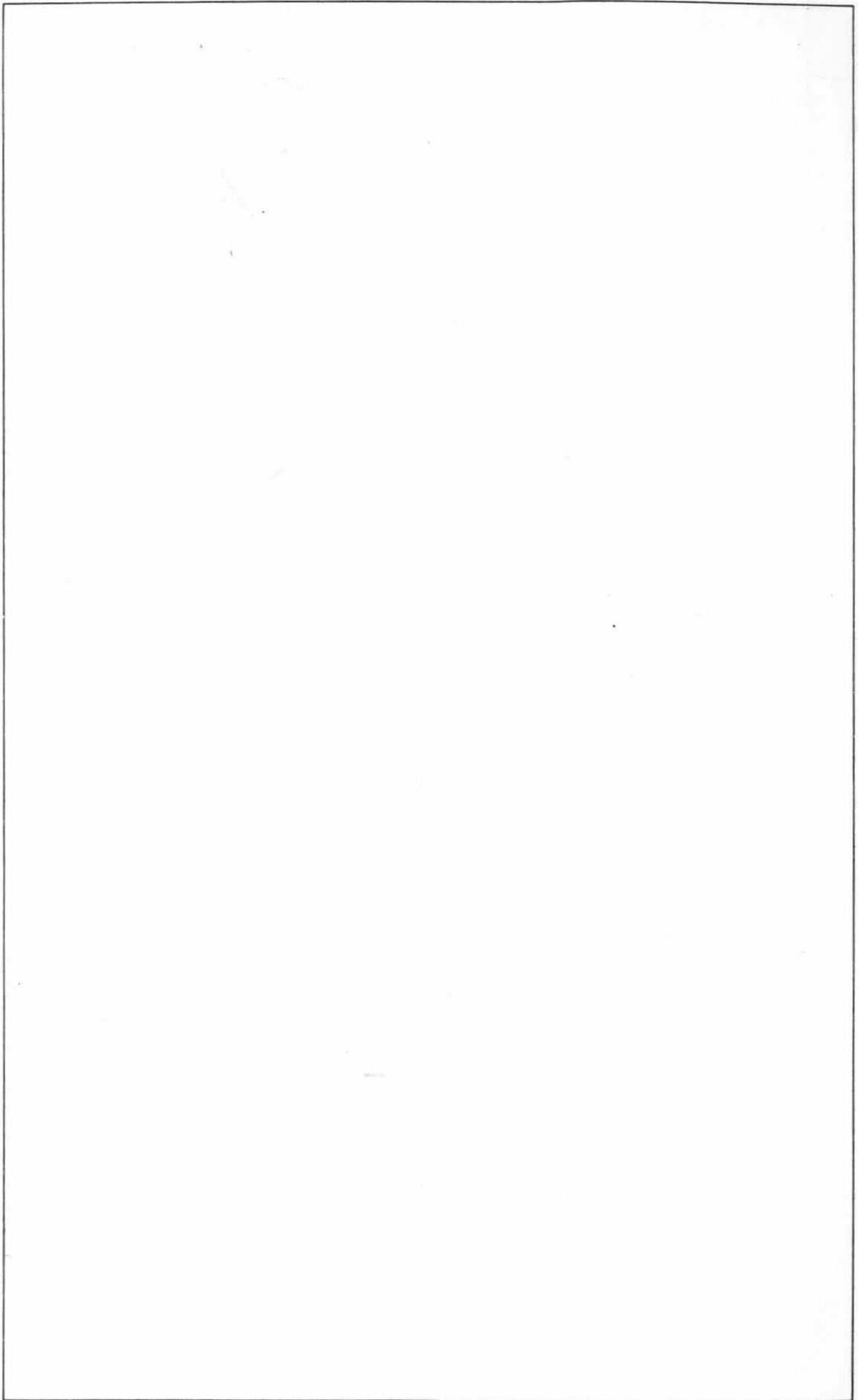
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0123.6 - 0133	open	262	20.2	Near	1
0128.7 + 0022	medium compact	83	5.3	D	3
0130.5 - 0205	compact	55	1.2	ED	24
0132.5 - 0126	medium compact	52	1.1	ED	23
0134.8 - 0045	open	104	7.7	MD	22
0134.8 + 0242	open	89	4.9	VD	13
0136.7 + 0053	open	66	5.3	VD	11
0137.0 + 0107	compact	56	1.1	ED	12
0137.8 - 0207	medium compact	88	2.0	ED	21
0138.3 - 0010	open	75	4.1	ED	10
0139.5 - 0122	open	71	2.8	VD	26
0142.1 + 0308	open	92	2.9	ED	9
0142.4 - 0230	medium compact	65	1.2	ED	2
0142.5 - 0009	compact	35	0.3	ED	7
0142.6 + 0120	medium compact	54	1.6	ED	8
0143.2 - 0214	medium compact	75	2.2	ED	25
0144.0 - 0051	open	144	5.9	D	20
0145.1 - 0218	open	136	2.7	ED	19
0145.2 + 0002	medium compact	109	2.7	ED	18
0146.8 - 0035	compact	31	0.4	ED	17
0149.2 + 0136	medium compact	78	1.7	ED	6
0149.6 + 0117	medium compact	84	1.5	VD	5
0150.0 - 0106	medium compact	108	6.3	D	14
0150.8 - 0124	medium compact	74	1.3	ED	15
0151.0 - 0136	compact	109	1.5	ED	16
0151.5 + 0052	medium compact	123	7.4	D	4

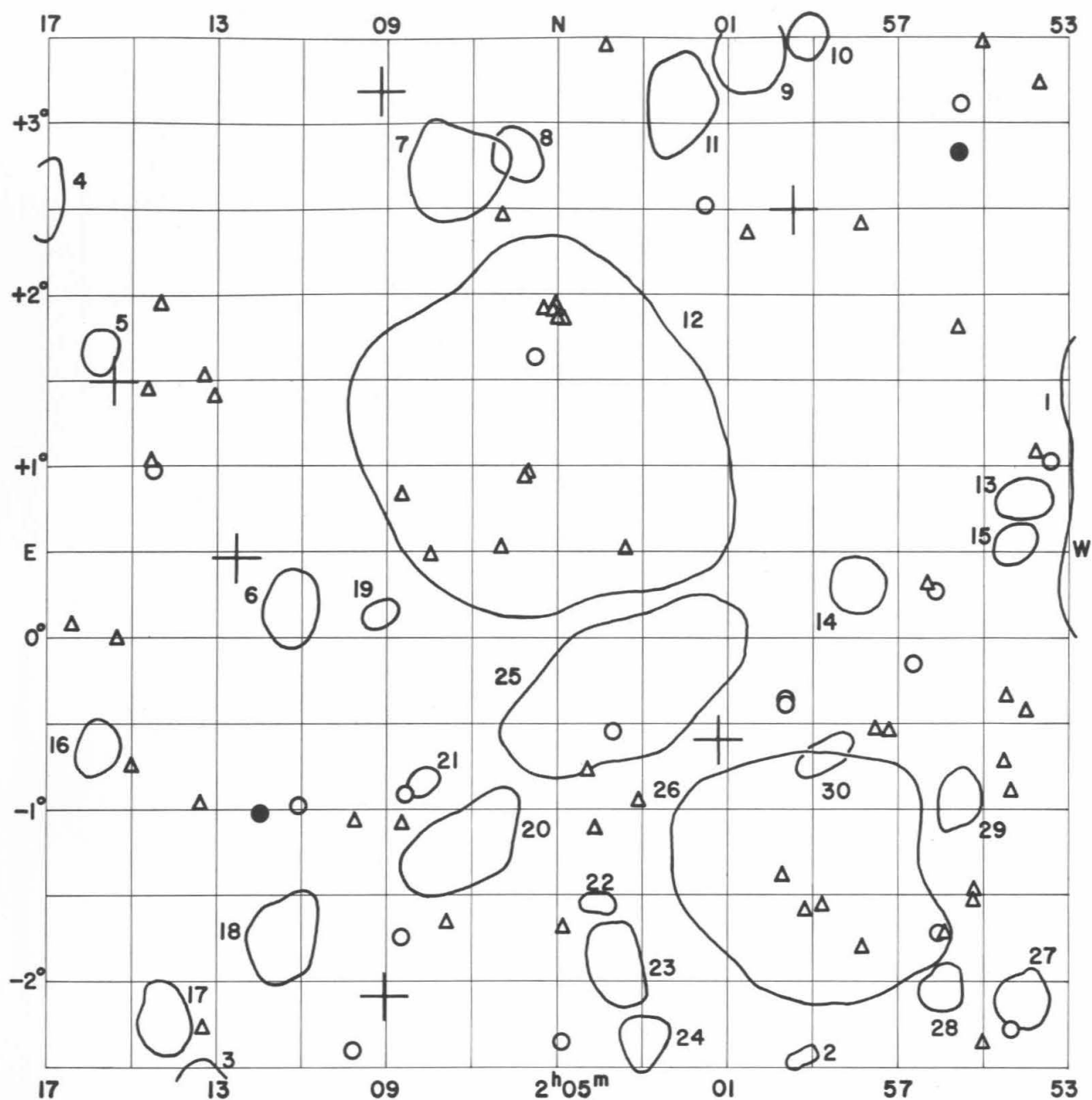
Average number of galaxies per cluster = 89.2

GALAXIES

Position α 1950 δ	NGC IC*	m _p	V _s km/sec	Remarks
h m o				
1 29.1 - 01 11	585	14.2		
1 29.3 + 00 25		15.7		
1 29.4 - 02 28		15.3		
1 29.9 + 01 44		15.7		
1 30.4 - 00 57	138*	14.9		
1 30.8 + 02 50		15.0		
1 31.0 - 01 21		15.2		
1 31.2 - 02 24		15.7		compact
1 31.2 + 03 18		14.8		
1 31.5 - 01 20		14.9		
1 31.6 - 01 17		14.4		
1 32.4 + 01 05		15.6		
1 32.9 + 03 15		15.5		
1 33.1 - 00 14		15.5		
1 33.4 - 02 29		15.7		
1 33.4 + 00 25	622	14.1		
1 33.8 + 03 30		15.3		compact
1 34.1 - 01 38		15.1		
1 35.1 - 00 12		15.5		
1 35.3 + 02 03		15.5		
1 35.4 + 00 45		15.5		compact
1 36.1 + 00 30	145*	15.6		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α h m	1950	δ o ' "					
1	36.2	- 00 24			15.7		
1	36.3	+ 00 50			14.2		
1	36.9	- 00 12			15.7		
1	37.0	- 00 16			15.6		
1	37.3	- 02 17			15.1		
1	37.7	- 00 45			15.2		
1	38.9	- 02 21			15.7		
1	39.7	- 02 28			15.7		
1	39.8	- 02 23			14.9		double system
1	40.0	- 01 04			15.3		
1	40.2	+ 01 30			15.7		
1	41.0	+ 01 50			15.7		
1	41.4	+ 02 06			14.0		
1	43.0	+ 03 07			14.9		
1	44.8	+ 02 35			14.9		double system
1	46.3	- 01 22			15.7		
1	47.3	+ 03 25			15.5		
1	47.4	+ 01 50			15.0		
1	47.5	- 00 59			15.5		
1	47.6	+ 02 03			15.2		
1	48.5	+ 01 46			15.7		
1	48.6	- 01 40			15.3		
1	48.7	- 01 19			15.5		compact
1	49.2	+ 00 01			15.7		
1	49.8	- 01 23			15.7		
1	50.0	+ 01 05			15.3		
1	50.5	- 01 20			15.7		
1	51.4	- 01 00			14.6		
1	51.5	+ 00 42			15.7		
1	51.8	- 00 52			14.7		
1	51.8	- 00 28			15.7		
1	52.1	- 00 24			14.7		
1	52.3	- 01 46			15.7		diffuse
1	52.3	+ 00 33		172*	14.6		





FIELD No. 387

$2^{\text{h}}05^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 852

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
2452	1	59	27.4	+	2	31 23	4.33
2488	2	01	14.4	-	0	34 45	6.01
2624	2	09	03.3	-	2	03 35	6.04
2625	2	09	07.5	+	3	13 06	6.71
2701	2	12	35.5	+	0	29 17	6.82
2770	2	15	25.4	+	1	31 21	5.82

CLUSTERS OF GALAXIES

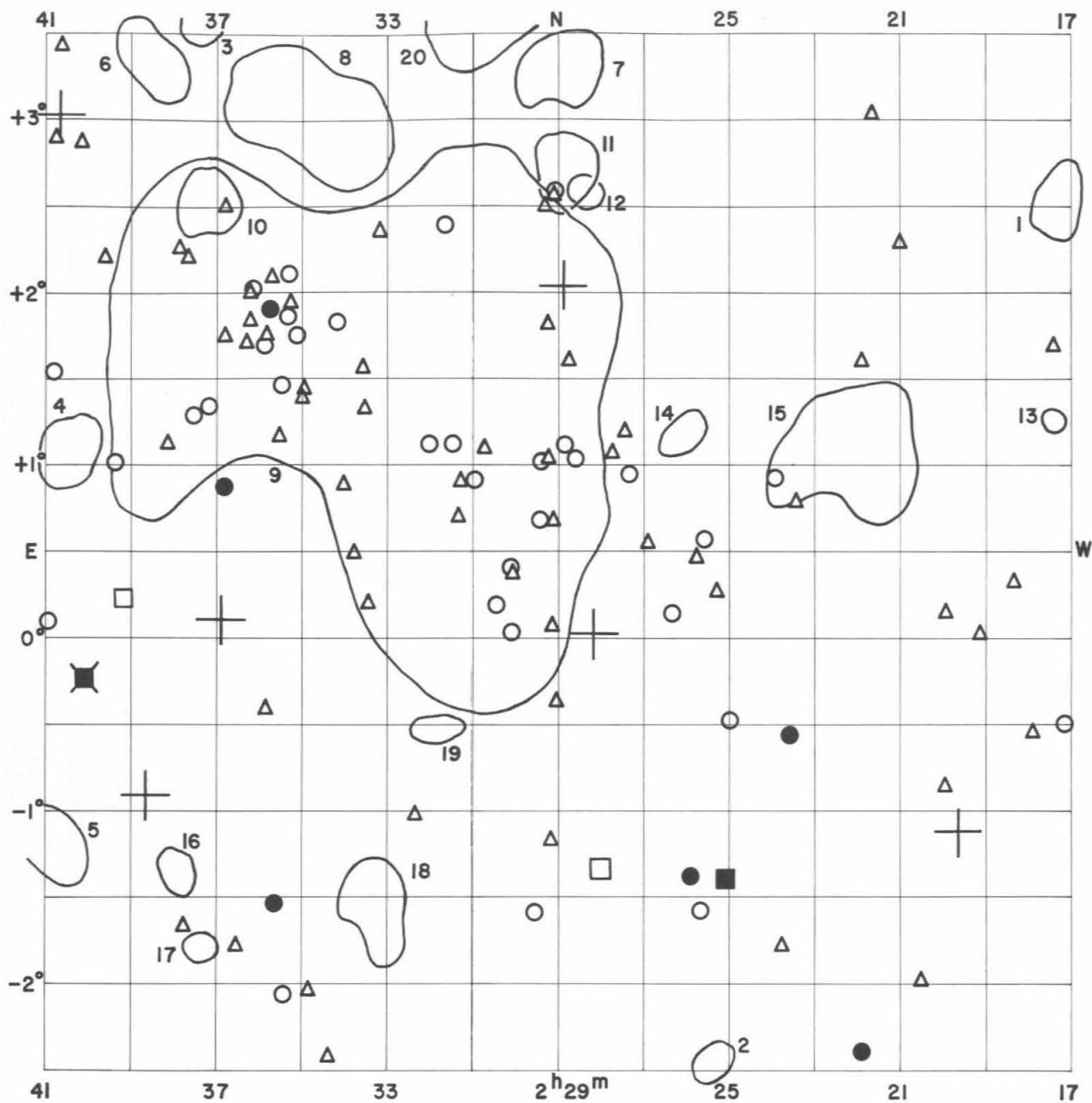
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0151.5 + 0052	medium compact	123	7.4	D	1
0154.0 - 0205	medium compact	64	1.7	VD	27
0154.0 + 0048	medium compact	55	1.5	VD	13
0154.2 + 0033	compact	75	1.3	ED	15
0155.6 - 0055	medium compact	68	1.6	ED	29
0156.0 - 0202	compact	81	1.4	ED	28
0158.0 + 0018	medium compact	80	1.8	ED	14
0158.8 - 0040	medium compact	55	1.4	ED	30
0159.0 - 0121	open	118	8.4	MD	26
0159.2 - 0226	compact	55	0.7	ED	2
0159.2 + 0330	compact	132	1.3	ED	10
0200.6 + 0324	medium compact	93	2.3	VD	9
0202.1 + 0307	medium compact	84	2.6	ED	11
0203.0 - 0220	compact	55	1.5	ED	24
0203.4 - 0016	open	91	5.9	D	25
0203.6 - 0154	medium compact	99	2.1	ED	23
0204.0 - 0132	compact	43	0.8	ED	22
0205.5 + 0110	open	131	11.6	Near	12
0205.9 + 0248	medium compact	106	1.6	ED	8
0207.0 - 0113	medium compact	95	3.2	ED	20
0207.4 + 0242	compact	80	3.1	VD	7
0208.2 - 0050	medium compact	45	0.9	ED	21
0209.1 + 0008	compact	55	1.0	ED	19
0211.2 + 0009	medium compact	99	2.0	ED	6
0211.3 - 0145	compact	83	2.5	ED	18
0213.6 - 0303	medium compact	99	5.0	D	3
0214.1 - 0214	medium compact	64	1.9	VD	17
0215.8 - 0038	medium compact	71	1.5	ED	16
0215.8 + 0140	compact	55	1.2	ED	5
0217.2 + 0231	medium compact	124	2.0	ED	4

Average number of galaxies per cluster = 82.6

GALAXIES

Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
1	53.4	+01 02	173*	14.9		
1	53.7	+03 15		15.7		
1	53.8	+01 05	175*	15.7		
1	54.0	-00 25		15.5		
1	54.4	-02 16	176*	15.0		
1	54.4	-00 53		15.5		compact
1	54.5	-00 20	177*	15.4		
1	54.6	-00 43	1756*	15.5		
1	55.0	-02 20		15.7		extremely diffuse
1	55.0	+03 28		15.7		
1	55.2	-01 26		15.6		
1	55.3	-01 30		15.7		
1	55.5	+03 08		14.9		
1	55.6	+01 50		15.1		
1	55.6	+02 50		14.0		double system, plume
1	56.0	-01 42		15.6		
1	56.1	-01 42		14.9		
1	56.1	+00 17	7628	14.3		

Position α 1950 δ				NGC IC*	m _p	V _s km/sec	Remarks
h	m	o	'				
1	56.3	+00	19	1761*	15.5		
1	56.6	-00	08		15.0		
1	57.2	-00	31		15.6		
1	57.5	-00	31		15.6		
1	57.9	-01	47	186*	15.3		triple system
1	57.9	+02	25		15.3		very compact
1	58.8	-01	33		15.5		
1	59.2	-01	35		15.7		preceding of three
1	59.7	-01	21		15.7		
1	59.7	-00	22	800	14.7		
1	59.7	-00	20	799	14.2		
2	00.5	+02	22	194*	15.4		
2	01.5	+02	33	197*	14.3		
2	03.1	-00	56		15.7		
2	03.4	+00	31		15.7		
2	03.7	-00	32		14.6		
2	03.9	+03	27	1779*	15.2		
2	04.2	-01	06		15.6		extremely diffuse
2	04.3	-00	45	1781*	15.3		
2	04.9	-02	20	205*	14.8		
2	04.9	-01	40	204*	15.7		
2	04.9	+01	52		15.5		
2	05.0	+01	52		15.1		
2	05.0	+01	56		15.3		double system
2	05.1	+01	54		15.1		
2	05.3	+01	55		15.2		
2	05.5	+01	39		14.9		
2	05.7	+00	57		15.7		
2	05.8	+00	56		15.5		
2	06.3	+00	32		15.5		
2	06.3	+02	28		15.4		
2	07.6	-01	38		15.5		
2	08.0	+00	30		15.7		
2	08.5	-00	54		14.7		double system
2	08.6	-01	44	850	14.1		
2	08.6	-01	04		15.3		
2	08.6	+00	50		15.6		
2	09.7	-02	23		15.0		
2	09.7	-01	03		15.3		
2	11.0	-00	58	856	14.4		
2	12.0	-01	00	863	14.0		
2	13.0	+01	25		15.1		
2	13.3	-02	15		15.7		
2	13.3	+01	32		15.2		diffuse
2	13.4	-00	58	868	15.6		
2	14.3	+01	57		15.2		
2	14.5	+01	00	875	14.2		
2	14.5	+01	02	218*	15.7		
2	14.6	+01	27		15.2		
2	15.0	-00	44		15.6		compact
2	15.3	00	00		15.7		
2	16.4	+00	05		15.6		



FIELD No. 388

2^h29^m + 0°30'

Survey Plate No. 1283

GC STARS

Nos.	R. A.			Decl.			m _p
	h	m	s	o	'	"	
2850	2	19	39.4	-	1	06 42	5.62
3012	2	28	11.5	+	0	02 06	6.03
3029	2	28	54.7	+	2	02 48	5.44
3192	2	36	55.0	+	0	06 50	4.04
3235	2	38	40.1	-	0	54 26	5.73
3276	2	40	42.4	+	3	01 34	3.58

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0217.2 + 0231	medium compact	124	2.0	ED	1
0217.4 + 0117	compact	55	0.7	ED	13
0222.2 + 0104	open	82	4.5	D	15
0225.4 - 0227	compact	55	1.2	ED	2
0226.1 + 0111	medium compact	60	1.3	ED	14
0228.3 + 0235	compact	75	1.1	ED	12
0228.8 + 0244	medium compact	80	2.1	VD	11
0228.9 + 0319	open	95	2.5	VD	7
0230.2 + 0404	open	123	6.4	D	20
0231.8 - 0030	medium compact	45	1.1	ED	19
0233.0 + 0124	medium compact	180	14.7	Near	9
0233.1 - 0132	medium compact	101	2.5	ED	18
0234.8 + 0302	medium compact	97	4.5	VD	8
0237.1 + 0232	medium compact	79	2.0	VD	10
0237.2 - 0146	compact	110	1.0	ED	17
0237.3 + 0338	medium compact	88	1.6	ED	3
0237.8 - 0120	medium compact	55	1.2	ED	16
0238.3 + 0321	medium compact	83	2.2	ED	6
0240.3 + 0105	medium compact	96	2.1	ED	4
0240.8 - 0110	medium compact	180	2.5	ED	5

Average number of galaxies per cluster = 93.2

GALAXIES

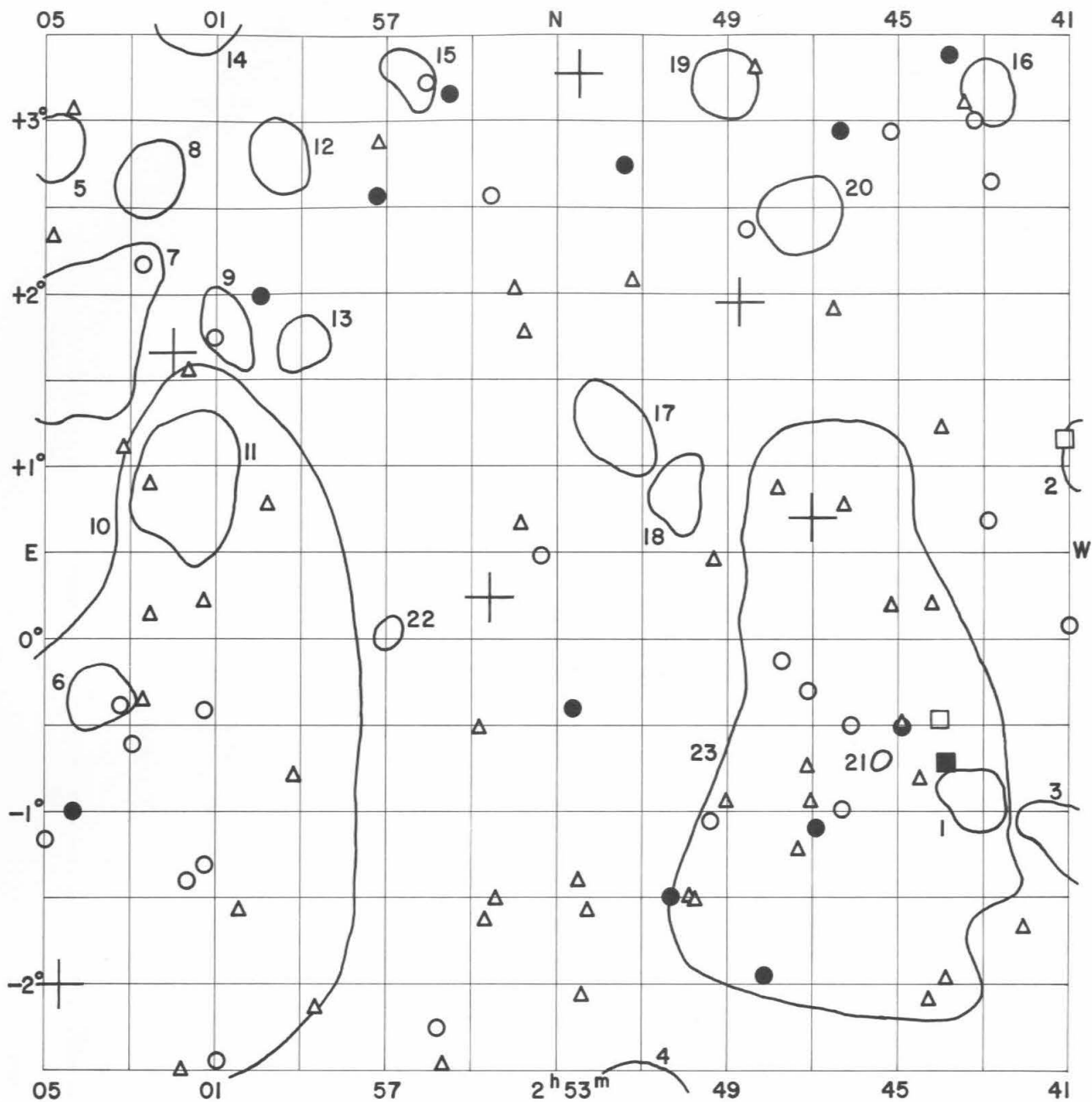
Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o				
2	17.2	- 00 29		14.6		
2	17.4	+ 01 43		15.2		
2	17.9	- 00 32		15.7		
2	18.3	+ 00 20		15.1		double system
2	19.1	+ 00 02		15.6		
2	20.0	- 00 51		15.6		
2	20.0	+ 00 09		15.6		double system
2	20.6	- 01 59		15.2		
2	21.0	+ 02 18		15.7		double system, bridge
2	21.6	+ 03 02		15.5		
2	21.9	- 02 23		14.0		
2	21.9	+ 01 37		15.3		
2	23.5	+ 00 48		15.7		
2	23.6	- 00 33	926	13.9		
2	23.8	- 01 46		15.6		
2	23.9	+ 00 56	225*	14.7		
2	25.0	- 00 28	934	14.4		
2	25.1	- 01 23	936	11.3	+ 1343	$m_H = 11.5$ SBa
2	25.3	+ 00 16		15.5		
2	25.6	+ 00 35		15.0		
2	25.7	- 01 34		14.4		
2	25.8	+ 00 28		15.4		
2	26.0	- 01 22	941	13.4		$m_H = 13.3$
2	26.4	+ 00 09		14.6		
2	27.0	+ 00 33		15.7		very compact
2	27.4	+ 00 57	231*	15.0		compact
2	27.5	+ 01 12		15.6		
2	27.8	+ 01 05		15.7		

Position a 1950 δ h m o s				NGC IC*	m_p	V_s km/sec	Remarks
2	28.0	- 01	20	955	13.0		$m_H = 13.1$
2	28.6	+ 01	02	232*	14.2		
2	28.7	+ 01	37		15.7		
2	28.8	+ 01	07		14.6		
2	29.0	+ 02	36	233*	14.9		
2	29.1	- 00	21	234*	15.2		
2	29.1	+ 00	41		15.7		
2	29.1	+ 02	35		15.7		
2	29.2	- 01	10		15.7		
2	29.2	+ 00	05		15.6		
2	29.2	+ 01	02		15.4		very compact
2	29.2	+ 01	50		15.7		
2	29.3	+ 02	31		15.6		
2	29.4	+ 00	42		14.8		
2	29.4	+ 01	01		14.8		
2	29.6	- 01	35		14.3		
2	30.0	+ 00	22		15.7		
2	30.1	+ 00	03		14.3		
2	30.1	+ 00	24		14.4		
2	30.4	+ 00	12		14.5		
2	30.7	+ 01	06		15.2		
2	30.9	+ 00	55	237*	14.6		
2	31.3	+ 00	42		15.7		
2	31.3	+ 00	55		15.5		
2	31.5	+ 01	08		14.4		
2	31.6	+ 02	24		15.0		
2	32.0	+ 01	08		15.0		
2	32.3	- 01	00		15.7		
2	33.1	+ 02	22		15.7		
2	33.4	+ 00	12		15.1		diffuse
2	33.5	+ 01	20		15.7		
2	33.5	+ 01	34		15.7		
2	33.8	+ 00	30		15.1		
2	34.0	+ 00	54		15.5		
2	34.1	+ 01	50	993=994	14.9		
2	34.4	- 02	25		15.7		
2	34.8	- 02	02		15.4		
2	34.9	+ 01	25		15.5		
2	35.0	+ 01	23		15.6		
2	35.0	+ 01	45	1004	14.3		
2	35.2	+ 01	56	1007	15.7		
2	35.3	+ 01	52	1008	14.9		
2	35.3	+ 02	07	241*	14.5		
2	35.4	- 02	04		14.5		
2	35.4	+ 01	28		15.0		
2	35.5	+ 01	10		15.1		
2	35.6	- 01	32	1015	13.5		
2	35.7	+ 01	55	1016	13.3		
2	35.7	+ 02	06	1009	15.4		
2	35.8	- 00	24		15.6		
2	35.8	+ 01	42	1019	14.6		
2	35.8	+ 01	45		15.6		
2	36.1	+ 02	01	1020	15.0		
2	36.2	+ 01	43		15.7		
2	36.2	+ 01	50		15.7		compact
2	36.2	+ 02	00	1021	15.1		
2	36.5	- 01	46		15.7		
2	36.8	+ 00	53	1032	13.2		
2	36.8	+ 01	45		15.4		

Position			NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ				
h	m	o				
2	36.8	+ 02 31	244*	15.3		
2	37.1	+ 01 20	1827*	14.5		
2	37.5	+ 01 18	1038	14.4		
2	37.7	+ 02 13		15.6		
2	37.8	- 01 40		15.7		
2	37.8	+ 02 16	246*	15.5		
2	38.1	+ 01 08	1043	15.7		
2	39.1	+ 00 13	1055	12.5		$m_H = 12.0$ S
2	39.3	+ 01 01		15.0		
2	39.6	+ 02 13		15.2		
2	40.1	- 00 13	1068	9.7	+ 1071	$m_H = 10.0$ Sb
2	40.1	+ 02 52	1834*	15.2		
2	40.6	+ 03 25		15.5		double system
2	40.7	+ 01 33		14.8		
2	40.7	+ 02 53	1836*	15.6		
2	41.0	+ 00 05	1072	14.3		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
936	-	-	11.33	SBa	11.1	SBa	11.21	Sa
941	-	-	-	-	-	-	12.84	Sc +
1055	-	-	-	-	-	-	11.38	Sb +
1068	9.4	Sbc	10.01	Sb	9.9	Sb	9.63	Sb -



FIELD No. 389

$2^{\text{h}}53^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 1453

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	i	"	
3392	2	47	03.5	+	0	42 53	7.08
3428	2	48	45.1	+	1	58 05	7.12
3506	2	52	31.6	+	3	17 06	6.73
3549	2	54	36.3	+	0	14 50	6.72
3683	3	02	02.8	+	1	40 11	6.05
3730	3	04	40.7	-	1	59 40	7.10

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0240.3 + 0105	medium compact	96	2.1	ED	2
0240.8 - 0110	medium compact	180	2.5	ED	3
0242.9 + 0311	compact	75	1.8	ED	16
0243.2 - 0054	medium compact	121	2.0	VD	1
0245.4 - 0040	compact	55	0.5	ED	21
0246.1 - 0045	open	130	13.3	Near	23
0247.2 + 0229	compact	138	2.5	ED	20
0249.0 + 0314	medium compact	93	2.1	ED	19
0250.1 + 0051	medium compact	81	1.9	ED	18
0251.2 - 0247	compact	88	3.6	ED	4
0251.7 + 0114	medium compact	97	2.7	ED	17
0256.4 + 0316	compact	95	1.6	ED	15
0256.9 + 0002	medium compact	56	0.9	ED	22
0258.9 + 0142	compact	73	1.7	ED	13
0259.4 + 0248	medium compact	100	2.0	ED	12
0300.7 + 0148	compact	92	1.9	ED	9
0301.4 + 0338	medium compact	88	2.7	ED	14
0301.6 + 0053	medium compact	82	4.0	VD	11
0302.4 + 0240	medium compact	106	2.2	ED	8
0303.7 - 0020	medium compact	63	1.9	ED	6
0304.2 + 0142	open	120	5.0	VD	7
0304.8 + 0250	medium compact	90	1.9	ED	5
0310.0 - 0130	open	540	30.0	Near	10

Average number of galaxies per cluster = 115.6

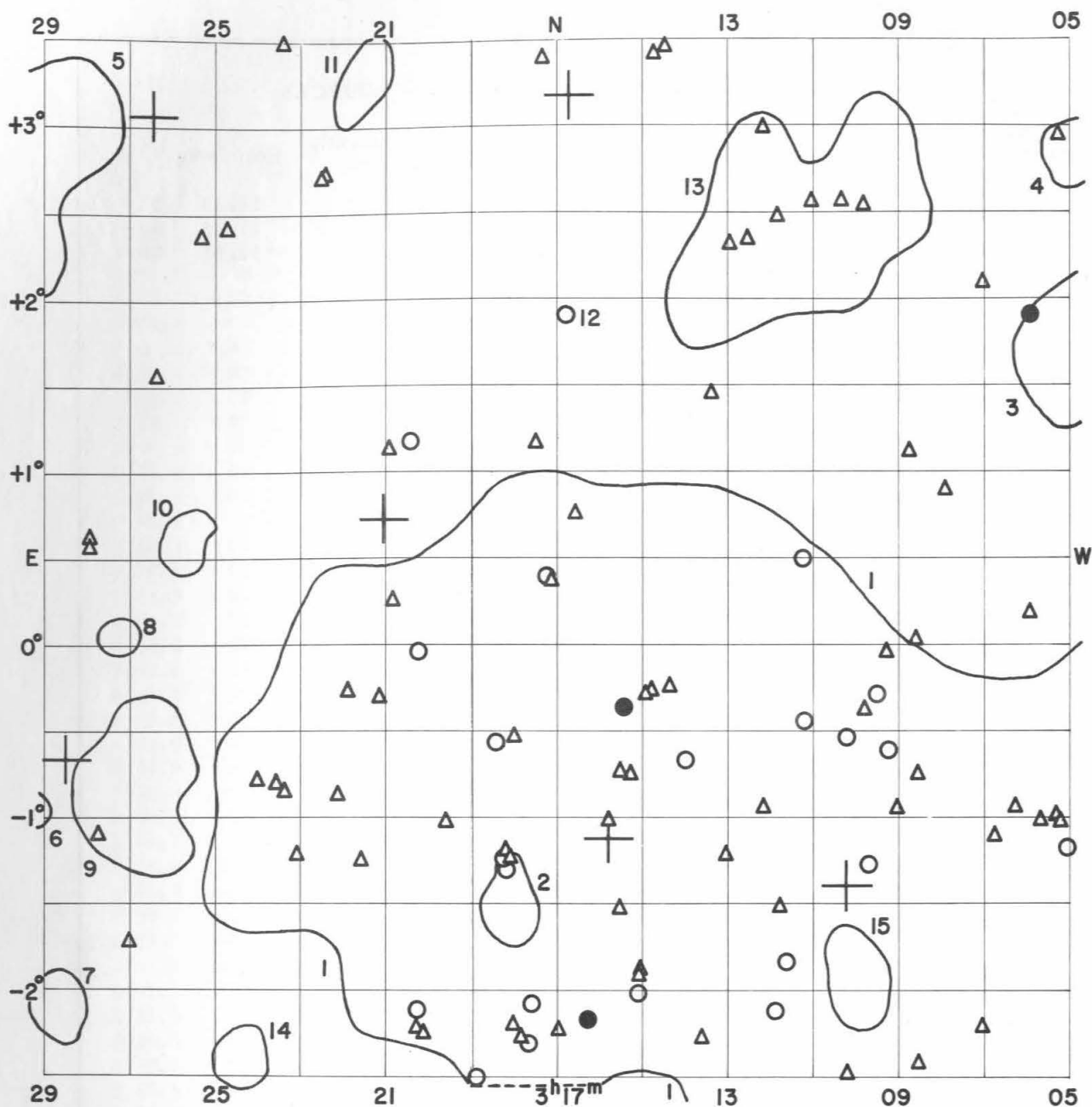
GALAXIES

Position				NGC IC*	m_p	V_s km/sec	Remarks
α h m	1950	δ o ' "					
2 41.0	+00 05			1072	14.3		
2 41.1	+01 10			1073	12.5	+1874	$m_H = 12.0$ S
2 42.1	-01 40				15.2		
2 42.8	+02 40			1843*	14.2		
2 42.9	+00 43				14.8		double system
2 43.2	+03 01			1844*	15.0		
2 43.4	+03 08				15.5		
2 43.8	+03 24			1085	13.6		
2 43.9	-01 57				15.4		compact
2 43.9	-00 42			1087	11.4	+1824	$m_H = 11.2$ Sc
2 44.0	-00 27			1090	12.8		$m_H = 12.8$ S
2 44.0	+01 14				15.3		
2 44.2	+00 13				15.7		
2 44.3	-02 04				15.7		
2 44.5	-00 48				15.7		
2 44.9	-00 30			1094	13.5		
2 44.9	-00 28				15.6		
2 45.1	+02 57				15.0		
2 45.2	+00 13				15.6		
2 46.1	-00 28			1104	14.8		
2 46.3	-00 58			1856*	14.5		
2 46.3	+00 47				15.4		
2 46.4	+02 58				14.0		
2 46.6	+01 56				15.3		large, extremely diffuse
2 46.9	-01 05				13.9		

Position a 1950 δ				NGC IC*	m _p	V _s km/sec	Remarks
h	m	o	'				
2	47.1	- 00	56		15.7		
2	47.1	- 00	16		14.7		
2	47.2	- 00	44		15.1		
2	47.4	- 01	12		15.6		
2	47.7	- 00	06		14.9		double system
2	47.9	+ 00	53		15.7		
2	48.2	- 01	56	1121	13.7		
2	48.4	+ 03	19		15.2		double system
2	48.6	+ 02	23		14.6		
2	49.1	- 00	57		15.2		
2	49.3	+ 00	27		15.7		
2	49.4	- 01	02		14.9		
2	49.8	- 01	30	1126	15.4		
2	49.9	- 01	29		15.7		
2	50.3	- 01	28	1132	13.9		
2	51.3	+ 02	05		15.7		
2	51.4	+ 02	45	1137	13.5		
2	52.3	- 01	34		15.6		
2	52.5	- 02	04		15.6		
2	52.5	- 01	23		15.5		
2	52.6	- 00	23	1143+1144	13.2		double
2	53.3	+ 00	29		14.9		
2	53.8	+ 01	47		15.3		
2	53.9	+ 00	40		15.2		
2	54.0	+ 02	02		15.7		
2	54.4	- 01	30		15.6		
2	54.5	+ 02	35	273*	14.4		
2	54.7	- 01	38		15.7		
2	54.8	- 00	30	1149	15.1		
2	55.5	+ 03	10	1153	13.5		
2	55.7	- 02	28		15.7		
2	55.8	- 02	14		14.6		
2	56.0	+ 03	14		14.4		
2	57.1	+ 02	53		15.6		
2	57.2	+ 02	34	277*	13.8		
2	58.6	- 02	07		15.7		
2	59.1	- 00	47		15.2		
2	59.8	+ 00	47		15.7		
2	59.9	+ 02	00		14.0		
3	00.4	- 01	34		15.6		
3	00.9	- 02	26		14.7		
3	01.0	+ 01	45		15.0		
3	01.2	- 01	17	1194	14.7		
3	01.2	- 00	24	283*	15.0		
3	01.3	+ 00	13		15.7		
3	01.6	- 01	23		14.9		
3	01.7	- 02	30		15.5		
3	01.7	+ 01	34		15.6		
3	02.5	+ 00	09		15.2		
3	02.5	+ 00	54		15.3		
3	02.7	- 00	21		15.2		
3	02.7	+ 02	11		14.9		
3	02.9	- 00	36		14.9		
3	03.1	+ 01	07		15.6		
3	03.2	- 00	22		14.7		
3	04.3	- 00	59	1211	13.5		
3	04.3	+ 03	05		15.4		
3	04.8	+ 02	20		15.4		
3	05.0	- 01	09		14.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951	Pettit 1954	Humason, Mayall, Sandage 1956	Holmberg 1958
1073	- -	11.95 SBc	11.7 SBc	11.43 Sc +
1087	- -	11.44 Sc	11.4 Sc	11.45 Sc -
1090	- -	- -	- -	12.51 Sb +



FIELD No. 390

$3^{\text{h}} 17^{\text{m}} + 0^{\circ} 30'$

Survey Plate No. 363

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
3838	3	10	13.2	-	1	22 55	5.14
3953	3	15	48.7	-	1	06 40	5.62
3969	3	16	44.1	+	3	11 17	4.96
4046	3	21	01.8	+	0	44 04	6.64
4151	3	26	27.2	+	3	04 37	6.54
4202	3	28	30.8	-	0	39 01	6.63

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0304.2 + 0142	open	120	5.0	VD	3
0304.8 + 0250	medium compact	90	1.9	ED	4
0309.9 - 0157	medium compact	90	2.5	VD	15
0310.0 - 0130	open	540	30.0	Near	1
0311.2 + 0223	medium compact	123	7.3	MD	13
0316.7 + 0153	compact	60	0.4	ED	12
0318.0 - 0131	medium compact	69	2.2	ED	2
0321.4 + 0317	medium compact	53	2.1	ED	11
0324.2 - 0224	compact	80	1.8	ED	14
0325.6 + 0036	medium compact	76	1.7	ED	10
0326.7 - 0051	open	93	4.6	VD	9
0327.1 + 0002	compact	55	1.2	ED	8
0328.5 - 0205	medium compact	112	2.0	ED	7
0329.2 - 0056	medium compact	64	1.2	ED	6
0329.9 + 0242	medium compact	142	7.3	D	5

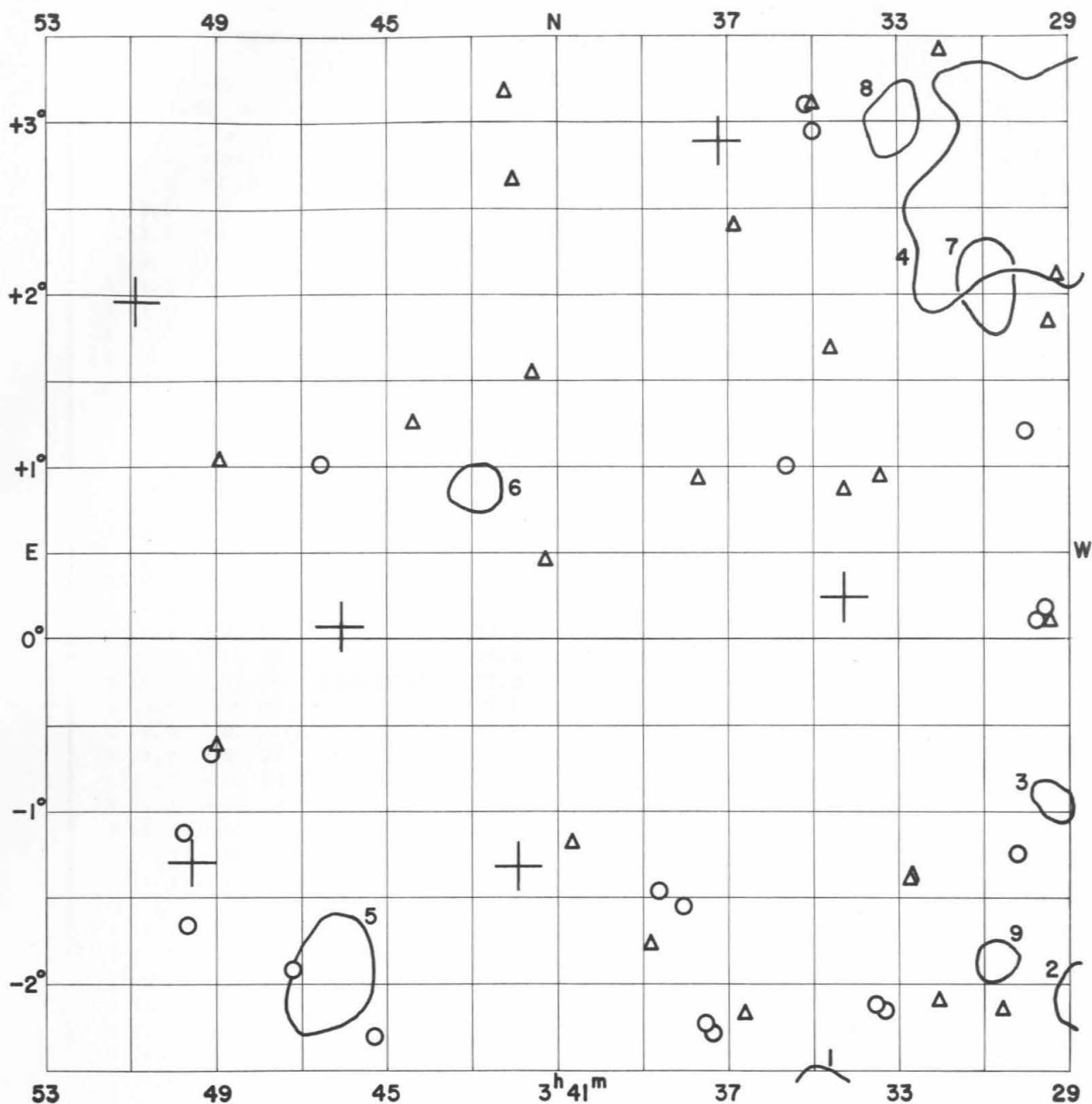
Average number of galaxies per cluster = 117.8

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	i				
3	05.0	- 01	09		14.7		
3	05.2	- 01	00		15.6		
3	05.2	+ 02	58	1882*	15.1		
3	05.3	- 00	58		15.2		
3	05.7	- 00	59		15.6		
3	05.9	+ 01	57	1219	13.5		
3	06.0	+ 00	13		15.6		
3	06.3	- 00	55		15.5		
3	06.8	- 01	05		15.7		compact
3	07.0	+ 02	07		15.6		
3	07.1	- 02	12		15.5		compact
3	07.9	+ 00	55		15.6		
3	08.5	- 02	24		15.7		compact
3	08.6	- 00	43		15.7		
3	08.6	+ 00	04		15.6		
3	08.7	+ 01	08	298*	15.1		double system, ring shaped
3	09.0	- 00	55		15.7		component
3	09.2	- 00	35		14.4		
3	09.3	- 00	01		15.7		diffuse
3	09.5	- 00	15		14.8		very compact
3	09.7	- 01	14		14.9		
3	09.8	- 00	21		15.1		extremely compact
3	09.8	+ 02	34		15.6		
3	10.2	- 02	28		15.7		
3	10.2	- 00	30		14.5		
3	10.3	+ 02	35		15.5		
3	11.1	+ 02	35		15.6		
3	11.2	- 00	24	307*	14.6		
3	11.3	+ 00	31		14.8		
3	11.6	- 01	49		14.8		
3	11.8	- 01	29		15.4		
3	11.8	+ 02	30	1254	15.5		
3	11.9	- 02	05		14.8		

Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	s				
3	12.2	- 00 55		15.6		
3	12.2	+ 03 00		15.6		
3	12.6	+ 02 21		15.7		extremely compact
3	13.0	+ 02 20		15.6		
3	13.1	- 01 12		15.5		
3	13.4	+ 01 28		15.7		
3	13.6	- 02 15		15.6		
3	14.0	- 00 39		14.9		
3	14.4	- 00 13		15.4		extremely compact
3	14.4	+ 03 29		15.7		
3	14.7	+ 03 26		15.2		
3	14.8	- 00 14		15.7		
3	14.9	- 00 15		15.7		
3	15.1	- 02 00		14.5		compact
3	15.1	- 01 54		15.6		
3	15.1	- 01 52		15.6		
3	15.3	- 00 44		15.7		
3	15.4	- 00 20	1280	13.9		
3	15.5	- 00 43		15.7		
3	15.6	- 01 30		15.7		
3	15.8	- 01 00		15.6		
3	16.3	- 02 09	1289=314*	13.8		
3	16.6	+ 00 47		15.6		
3	17.0	- 02 12		15.6		
3	17.1	+ 00 23		15.6		
3	17.2	+ 00 24		14.9		compact
3	17.3	+ 03 24		15.2		
3	17.5	+ 01 11		15.4		
3	17.6	- 02 03		14.9		
3	17.7	- 02 17	1298	14.2		
3	17.8	- 02 15		15.2		
3	18.0	- 02 10		15.5		
3	18.0	- 00 31		15.4		
3	18.1	- 01 12		15.7		
3	18.2	- 01 17		14.8		
3	18.2	- 01 13		14.9		double system, bridge
3	18.2	- 01 10		15.1		double system
3	18.4	- 00 32		14.1		
3	18.8	- 02 30	1305	14.8		
3	19.6	- 01 00		15.4		
3	20.1	- 02 14		15.6		
3	20.2	- 02 05		14.3		
3	20.2	- 00 01		15.0		
3	20.3	- 02 12		15.6		
3	20.4	+ 01 12		15.0		
3	20.8	+ 00 16		15.5		
3	20.9	+ 01 09	1312	15.7		
3	21.1	- 00 17		15.3		triple system
3	21.5	- 01 13		15.7		
3	21.9	- 00 15		15.7		
3	22.1	- 00 51		15.7		
3	22.3	+ 02 44		15.7		
3	22.4	+ 02 43		15.7		
3	23.1	- 01 12		15.6		
3	23.3	- 00 50		15.6		
3	23.3	+ 03 30	322*	15.4		
3	23.5	- 00 47		15.6		
3	24.0	- 00 46		15.6		
3	24.7	+ 02 26		15.5		

Position				NGC IC*	m_p	V_s km/sec
α	1950	δ				
h	m	o	'			
3	25.3	+ 02	23		15.5	
3	26.3	+ 01	35	1931*	15.5	diffuse
3	27.0	- 01	42		15.7	
3	27.7	- 01	05		15.1	very compact
3	27.9	+ 00	35		15.4	
3	27.9	+ 00	39		15.6	



FIELD No. 391

$3^h 41^m + 0^\circ 30'$

Survey Plate No. 932

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
4313	3	34	19.1	+	0	14 40	4.40
4365	3	37	14.7	+	2	53 44	5.76
4481	3	41	58.0	-	1	19 10	5.09
4584	3	46	04.8	+	0	04 32	6.10
4667	3	49	36.2	-	1	17 50	6.71
4686	3	50	54.3	+	1	58 19	6.73

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0328.5 - 0205	medium compact	112	2.0	ED	2
0329.2 - 0056	medium compact	64	1.2	ED	3
0329.9 + 0242	medium compact	142	7.3	D	4
0330.8 - 0151	medium compact	60	1.2	VD	9
0330.9 + 0204	medium compact	98	2.3	VD	7
0333.0 + 0300	open	67	2.0	ED	8
0334.8 - 0237	medium compact	70	1.5	VD	1
0342.8 + 0052	compact	51	1.5	VD	6
0346.2 - 0158	medium compact	91	3.2	D	5

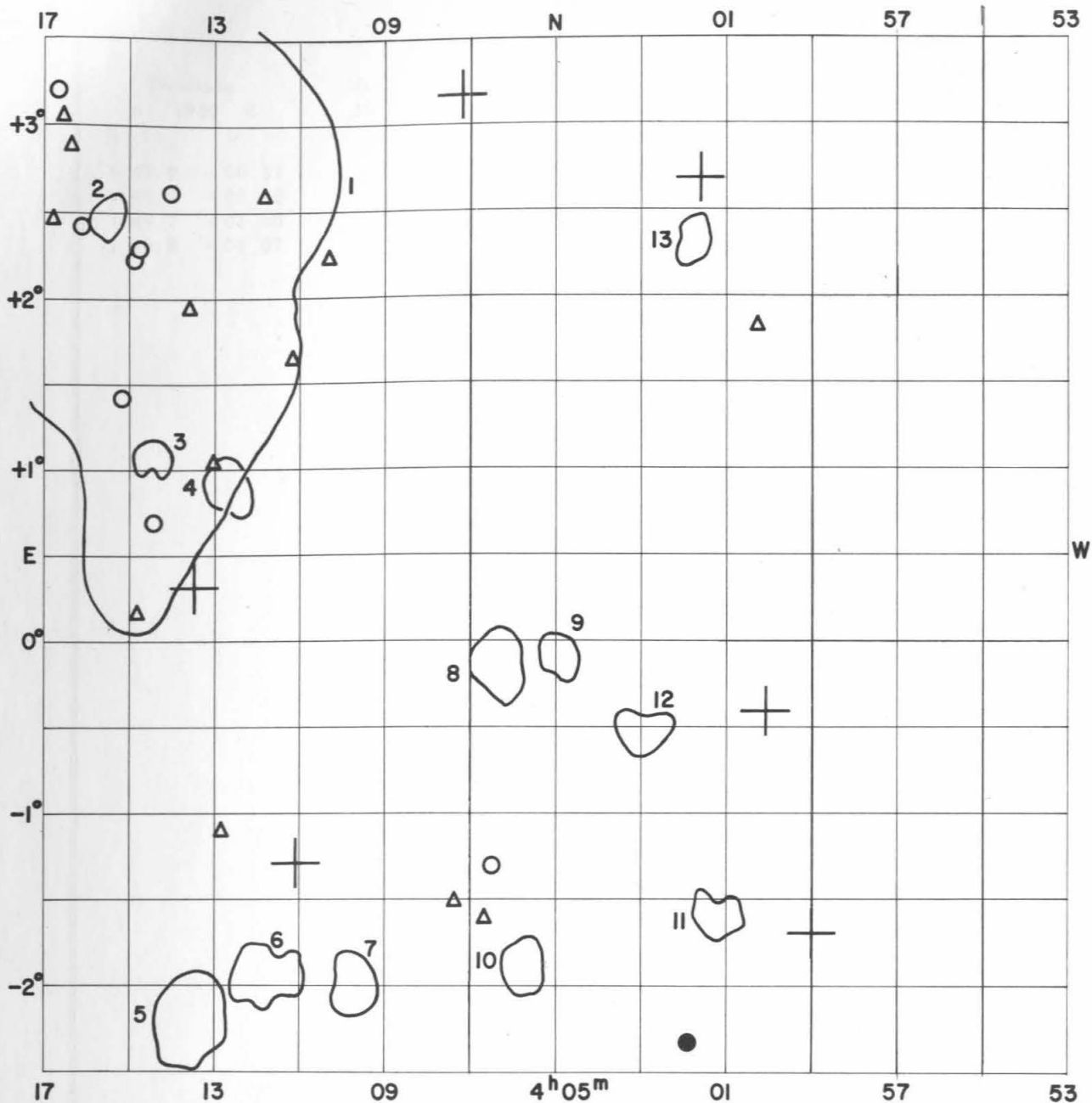
Average number of galaxies per cluster = 83.9

GALAXIES

Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	s				
3	29.3	+02 07		15.3		
3	29.5	+00 06	329*	15.1		
3	29.5	+01 51		15.2		
3	29.6	+00 11	330*	15.0		
3	29.8	+00 07	331*	14.9		
3	30.1	+01 13	332*	15.0		
3	30.2	-01 15		15.0		
3	30.6	-02 08		15.1		
3	32.0	+03 25		15.3		
3	32.1	-02 06		15.1		
3	32.7	-01 23		15.6		
3	32.8	-01 24		15.7		
3	33.3	-02 09		15.0		compact
3	33.4	+00 56		15.4		
3	33.6	-02 07		15.0		
3	34.3	+00 52		15.4		
3	34.6	+01 42		15.1		
3	35.0	+02 58		15.0		
3	35.0	+03 06	338*	15.7		
3	35.2	+03 06	1967*	15.0		
3	35.7	+01 00		15.0		diffuse multiple system
3	36.7	-02 10		15.2		
3	36.9	+02 25		15.2		
3	37.4	-02 16		14.9		peculiar
3	37.6	-02 14		15.0		
3	37.7	+00 56		15.1		
3	38.1	-01 32		15.0		
3	38.7	-01 27	1409+1410	14.7		double system
3	38.9	-01 46		15.5		
3	40.7	-01 10		15.3		
3	41.3	+00 27		15.3		
3	41.6	+01 33		15.4		peculiar
3	42.0	+02 41	1431	15.5		
3	42.2	+03 11		15.3		
3	44.4	+01 15		15.2		
3	45.3	-02 18		14.8		
3	46.5	+01 00		14.8		
3	47.2	-01 55		14.6		
3	48.9	+01 02	1998*	15.7		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ					
h	m	o	'				
3	49.0	- 00	37		15.3		
3	49.1	- 00	40		15.0		
3	49.7	- 01	40		15.0		
3	49.8	- 01	07		15.0		

1973-
1974-
1975-
1976-
1977-
1978-



FIELD No. 392

$4^{\text{h}}05^{\text{m}} + 0^{\circ}30'$

Survey Plate No. 232

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
4828	3	58	59.8	-	1	41 18	5.25
4851	4	00	02.9	-	0	24 12	5.42
4892	4	01	32.8	+	2	41 33	5.39
5010	4	07	06.1	+	3	11 36	6.51
5097	4	11	05.7	-	1	16 32	6.34
5153	4	13	27.2	+	0	19 50	7.18

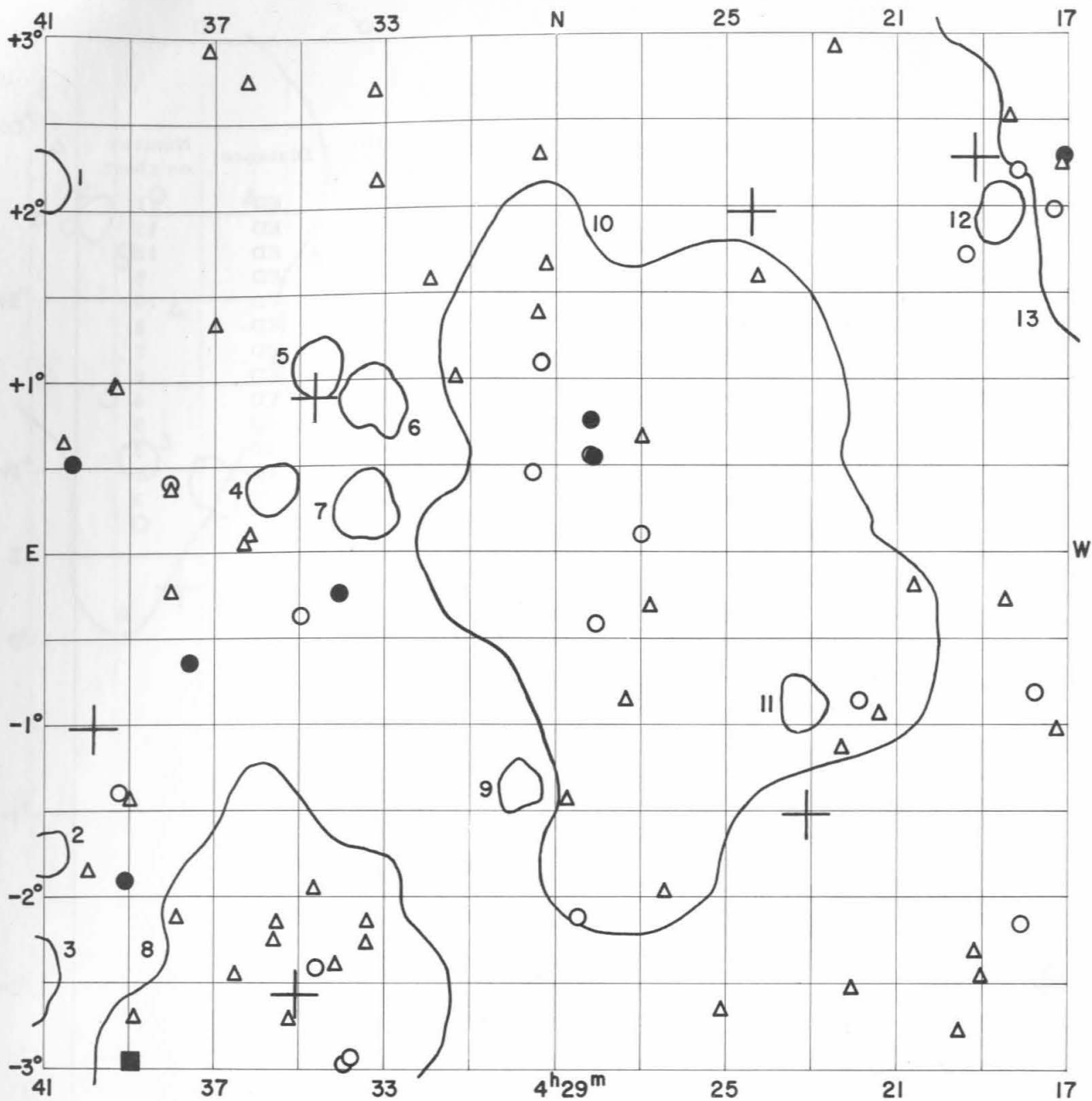
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0401.1 - 0135	medium compact	68	1.5	ED	11
0401.8 + 0219	medium compact	56	1.2	ED	13
0402.9 - 0031	medium compact	62	1.5	ED	12
0404.8 - 0005	compact	67	1.4	ED	9
0405.7 - 0153	open	60	1.5	VD	10
0406.3 - 0009	medium compact	88	1.8	ED	8
0409.6 - 0201	compact	114	1.7	ED	7
0411.7 - 0157	open	108	2.0	ED	6
0412.7 + 0054	medium compact	85	1.6	VD	4
0413.5 - 0213	medium compact	131	2.6	VD	5
0414.3 + 0103	medium compact	69	1.1	ED	3
0414.5 + 0216	open	225	13.9	Near	1
0415.5 + 0227	medium compact	64	1.2	ED	2

Average number of galaxies per cluster = 92.1

GALAXIES

Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
4	00.2	+01 49	1507	15.7		extremely diffuse
4	01.9	-02 19		13.1		m _H = 12.9
4	06.5	-01 17		14.8		
4	06.7	-01 37		15.7		following of two
4	07.4	-01 30		15.3		
4	10.2	+02 14		15.3		
4	11.1	+01 38		15.4		double system, bridge + plume
4	11.8	+02 35		15.7		extremely diffuse
4	12.8	-01 06		15.5		
4	13.0	+01 02		15.3		
4	13.5	+01 57	1541	15.4		
4	13.9	+02 37		14.9		
4	14.4	+00 42		14.9		
4	14.7	+02 17		14.9		double system
4	14.8	+00 10		15.4		
4	14.8	+02 14		15.0		
4	15.1	+01 25		14.9		
4	16.0	+02 25		14.8		
4	16.3	+02 53	363*	15.4		
4	16.5	+03 03	364*	15.2		
4	16.6	+03 13	365*	14.8		
4	16.7	+02 28		15.5		



FIELD No. 393

$4^{\text{h}}29^{\text{m}}$ $0^{\circ}00'$

Survey Plate No. 1524

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	i	n	
5284	4	19	10.0	+	2	16 29	6.92
5362	4	23	07.5	-	1	31 24	6.97
5399	4	24	24.5	+	1	58 08	6.37
5627	4	34	38.9	+	0	53 55	5.32
5635	4	35	05.0	-	2	34 19	5.31
5730	4	39	50.0	-	1	01 26	6.82

CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0414.5 + 0216	open	225	13.9	Near	13
0418.6 + 0158	medium compact	52	1.6	ED	12
0423.2 - 0053	compact	62	1.5	ED	11
0426.4 - 0002	open	155	17.3	Near	10
0429.8 - 0121	medium compact	61	1.4	ED	9
0430.8 - 0424	open	385	21.9	Near	8
0433.2 + 0053	medium compact	108	2.0	VD	6
0433.3 + 0015	medium compact	87	2.0	VD	7
0434.5 + 0104	medium compact	78	1.7	ED	5
0435.6 + 0022	medium compact	71	1.6	ED	4
0441.0 - 0145	compact	86	1.4	ED	2
0441.1 + 0211	medium compact	77	1.9	ED	1
0441.4 - 0228	open	117	2.3	VD	3

Average number of galaxies per cluster = 120.3

GALAXIES

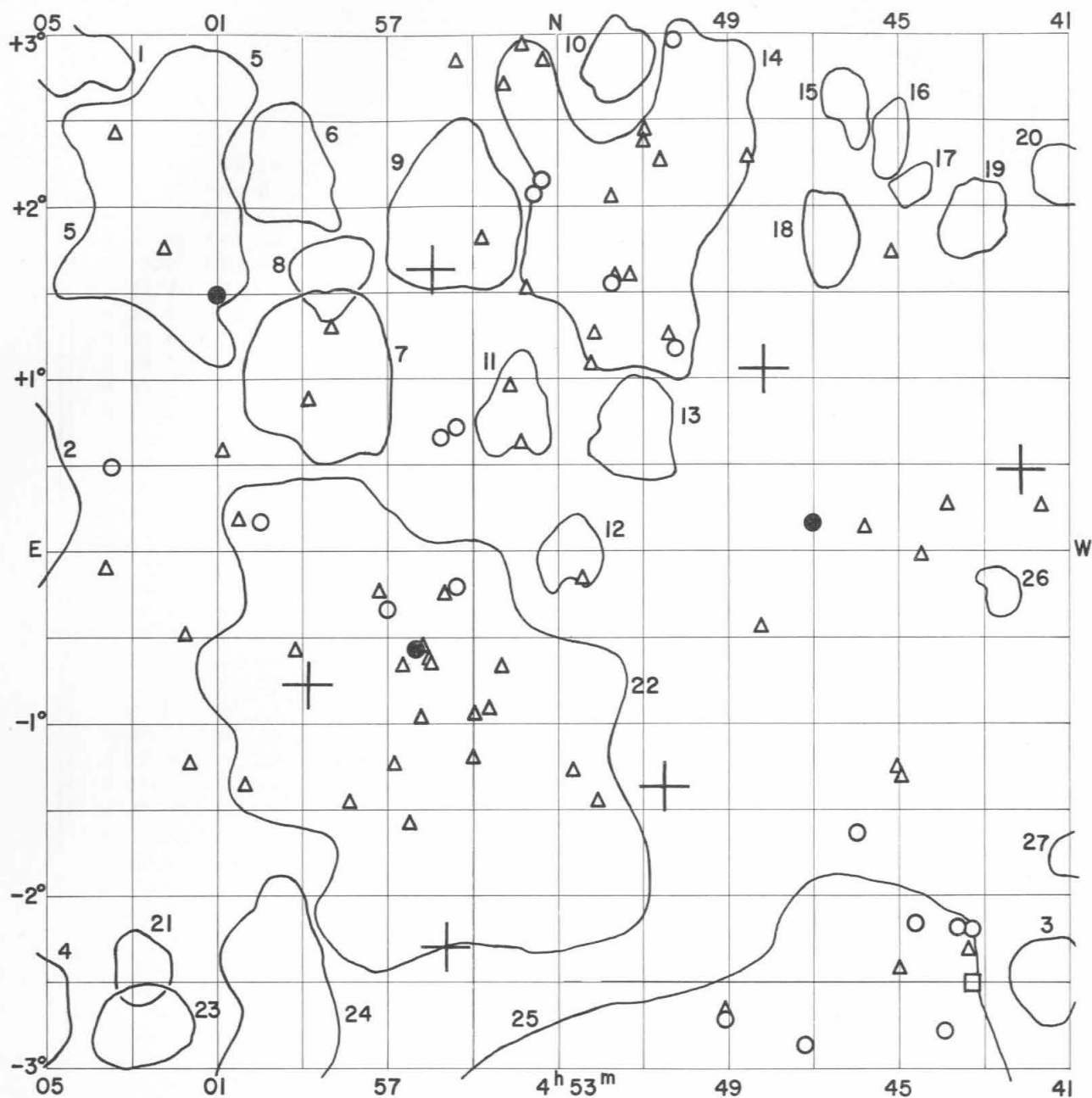
Position a 1950 δ h m o	NGC IC*	m _p	V _s km/sec	Remarks
4 17.0 + 02 18	1550	14.0		
4 17.1 + 02 14	366*	15.6		
4 17.3 - 01 02		15.7		
4 17.3 + 01 59		14.7		
4 17.7 - 00 48	1552	14.4		
4 18.0 - 02 09		14.9		
4 18.1 + 02 12		15.0		
4 18.3 + 02 31		15.2		
4 18.4 - 00 17		15.3		
4 19.1 - 02 27		15.7		diffuse
4 19.2 - 02 19		15.6		double system
4 19.4 + 01 43		14.9		
4 19.5 - 02 47		15.4		
4 20.6 - 00 12		15.7		
4 21.4 - 00 57		15.5		
4 21.8 - 00 51	1568	14.9		double system, bridge + plume
4 22.1 - 02 33		15.6		
4 22.3 - 01 09		15.7		
4 22.5 + 02 55		15.7		
4 24.3 + 01 35		15.4		
4 25.1 - 02 40		15.7		extremely diffuse
4 26.4 - 01 59		15.7		double system
4 26.8 - 00 19		15.6		diffuse
4 27.0 + 00 05		15.0		
4 27.0 + 00 39		15.6		
4 27.4 - 00 52		15.5		
4 28.1 - 00 25	1586	14.3		
4 28.1 + 00 33	1587	13.3	+ 3890	
4 28.2 + 00 33	1588	14.1		
4 28.2 + 00 45	1589	13.8		
4 28.5 - 02 07		14.9		
4 28.7 - 01 25		15.7		
4 29.2 + 01 40		15.7		
4 29.3 + 01 05		14.9		
4 29.4 + 01 21		15.6		

Position α 1950 δ				NGC IC*	m _p	V _s km/sec	Remarks
h	m	o	'				
4	29.4	+ 02	16	2077*	15.7		
4	29.5	+ 00	27		14.8		
4	31.3	+ 01	00		15.4		
4	31.9	+ 01	34		15.6		
4	33.1	+ 02	09		15.6		
4	33.2	+ 02	42		15.6		
4	33.4	- 02	17		15.5		
4	33.4	- 02	09		15.5		
4	33.7	- 02	57		14.8		
4	33.9	- 02	59		14.8		
4	34.0	- 00	15	1620	13.6		
4	34.1	- 02	24		15.4		
4	34.5	- 02	25		14.5		
4	34.6	- 01	58		15.6		
4	34.9	- 00	23		14.8		
4	35.2	- 02	43		15.7		
4	35.5	- 02	10		15.1		double system
4	35.6	- 02	15		15.7		
4	36.1	+ 00	05		15.1		very compact
4	36.2	+ 00	02		15.7		
4	36.2	+ 02	44	1635	15.1		
4	36.4	- 02	27		15.6		
4	37.0	+ 01	19		15.6		
4	37.1	+ 02	55		15.6		
4	37.5	- 00	40		13.5		
4	37.8	- 02	08		15.1		
4	37.9	- 00	14		15.7		
4	38.0	+ 00	20		15.6		
4	38.0	+ 00	23		14.7		
4	38.8	- 02	42		15.7		
4	38.9	- 02	58	1637	11.8	+ 611	m _H = 11.6
4	38.9	- 01	26	1638	15.6		
4	39.0	- 01	55		13.6		m _H = 13.1
4	39.2	- 01	24		14.4		
4	39.3	+ 00	57		15.5		
4	39.3	+ 00	58	1642	15.3		
4	39.9	- 01	52		15.5		
4	40.3	+ 00	30		13.6		
4	40.5	+ 00	38		15.3		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
1587	-	-	13.63	E1	13.2	E1	-	-
1637	-	-	11.70	Sc	11.6	Sc	11.26	Sc -





CLUSTERS OF GALAXIES

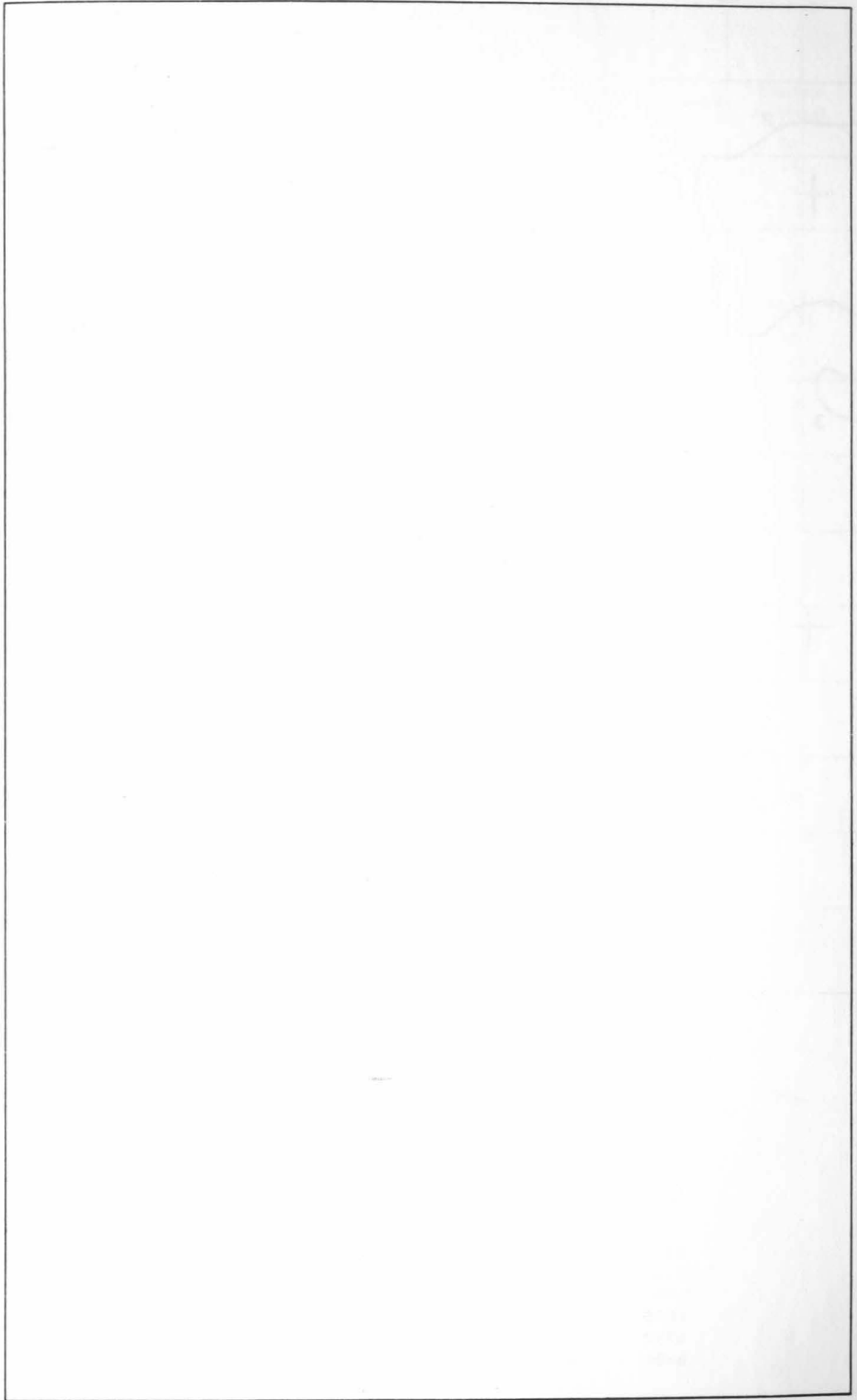
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0441.0 - 0145	compact	86	1.4	ED	27
0441.1 + 0211	medium compact	77	1.9	ED	20
0441.4 - 0228	open	117	2.3	VD	3
0442.6 - 0013	compact	66	1.4	ED	26
0443.2 + 0155	medium compact	121	2.2	VD	19
0444.6 + 0206	compact	69	1.2	VD	17
0445.1 + 0223	open	114	1.6	ED	16
0446.2 + 0235	medium compact	88	1.8	ED	15
0446.6 + 0150	medium compact	102	2.3	VD	18
0449.3 - 0437	open	268	22.2	Near	25
0451.2 + 0041	medium compact	87	2.9	VD	13
0451.3 + 0159	open	125	8.4	Near	14
0451.6 + 0251	compact	185	2.2	ED	10
0452.7 - 0001	medium compact	103	2.1	ED	12
0453.9 + 0047	medium compact	119	2.5	VD	11
0455.3 + 0155	open	100	4.6	D	9
0456.1 - 0103	medium compact	144	13.6	Near	22
0458.2 + 0137	compact	85	2.3	VD	8
0458.5 + 0102	medium compact	96	5.2	D	7
0459.2 + 0212	medium compact	125	3.4	D	6
0459.5 - 0235	medium compact	183	4.9	MD	24
0502.1 + 0201	medium compact	119	7.2	MD	5
0502.7 - 0245	open	110	2.9	D	23
0502.7 - 0226	compact	96	1.9	ED	21
0504.2 + 0251	compact	88	2.7	D	1
0505.6 - 0240	compact	101	3.5	MD	4
0506.4 + 0016	open	90	6.3	MD	2

Average number of galaxies per cluster = 113.5

GALAXIES

Position a 1950 δ h m o			NGC IC*	m_p	V_s km/sec	Remarks
4 41.7	+ 00	15		15.4		
4 43.3	- 02	30	1653	12.9		
4 43.3	- 02	11	1654	14.2		
4 43.4	- 02	18		15.7		
4 43.6	- 02	10	1657	15.0		
4 43.9	+ 00	16		15.2		
4 44.0	- 02	46	2093*	14.8		
4 44.5	- 00	01		15.6		extremely diffuse
4 44.6	- 02	09	1661	14.3		
4 45.0	- 02	24		15.3		
4 45.0	- 01	18		15.7		
4 45.1	- 01	15		15.5		
4 45.1	+ 01	44		15.2		
4 45.8	+ 00	08		15.7		
4 46.0	- 01	37		15.0		
4 47.0	+ 00	10	395*	13.9		
4 47.3	- 02	50	1670	14.1		
4 48.3	- 00	26		15.7		
4 48.6	+ 02	17		15.7		very diffuse
4 49.1	- 02	43	1678	14.4		
4 49.1	- 02	39		15.1		

Position a 1950 δ				NGC IC*	m_p	V_s km/sec	Remarks
h	m	o	'				
4	50.2	+01	10		14.6		
4	50.3	+02	58		14.7		
4	50.4	+01	15		15.4		
4	50.6	+02	15		15.1		
4	51.0	+02	22		15.7		
4	51.0	+02	25		15.7		
4	51.3	+01	36		15.7		
4	51.7	+01	33	1690	15.0		
4	51.7	+01	35		15.5		
4	51.7	+02	03		15.2		
4	52.1	-01	27		15.5		
4	52.1	+01	15		15.7		
4	52.2	+01	05		15.7		
4	52.4	-00	09		15.6		
4	52.7	-01	16		15.1		
4	53.3	+02	09		14.7		
4	53.3	+02	51		15.3		
4	53.5	+02	05		14.3		
4	53.7	+01	31		15.6		
4	53.8	+02	57		15.3		
4	53.9	+00	38		15.3		
4	54.1	+00	58		15.7		
4	54.2	+02	43		15.5		
4	54.3	-00	40		15.3		
4	54.6	-00	55		15.2		
4	54.7	+01	49		15.3		
4	54.9	-00	56		15.5		
4	55.0	-01	12		15.3		
4	55.3	+02	51		15.7		
4	55.4	-00	12		14.4		
4	55.4	+00	43		15.0		
4	55.7	-00	15		15.4		
4	55.7	+00	40		14.8		
4	56.0	-00	39		15.7		
4	56.0	-00	38		15.5		very compact
4	56.2	-00	58		15.5		
4	56.2	-00	33	1709	15.6		compact
4	56.3	-00	34	1713	13.9		
4	56.5	-01	34		15.5		
4	56.7	-00	40		15.7		
4	56.8	-01	14		15.6		
4	57.0	-00	20	1719	14.5		
4	57.2	-00	14		15.5		
4	57.9	-01	28		15.6		
4	58.3	+01	17		15.7		
4	58.8	+00	53		15.7		
4	59.1	-00	35		15.3		
5	00.0	+00	10		14.9		
5	00.3	-01	21		15.6		
5	00.5	+00	11		15.3		
5	00.9	+00	35		15.2		
5	01.0	+01	30	1762	13.5		
5	01.6	-01	13		15.5		
5	01.7	-00	29		15.7		
5	02.2	+01	45		15.4		
5	03.3	+02	25		15.3		
5	03.4	+00	29		15.0		
5	03.6	-00	06		15.7		



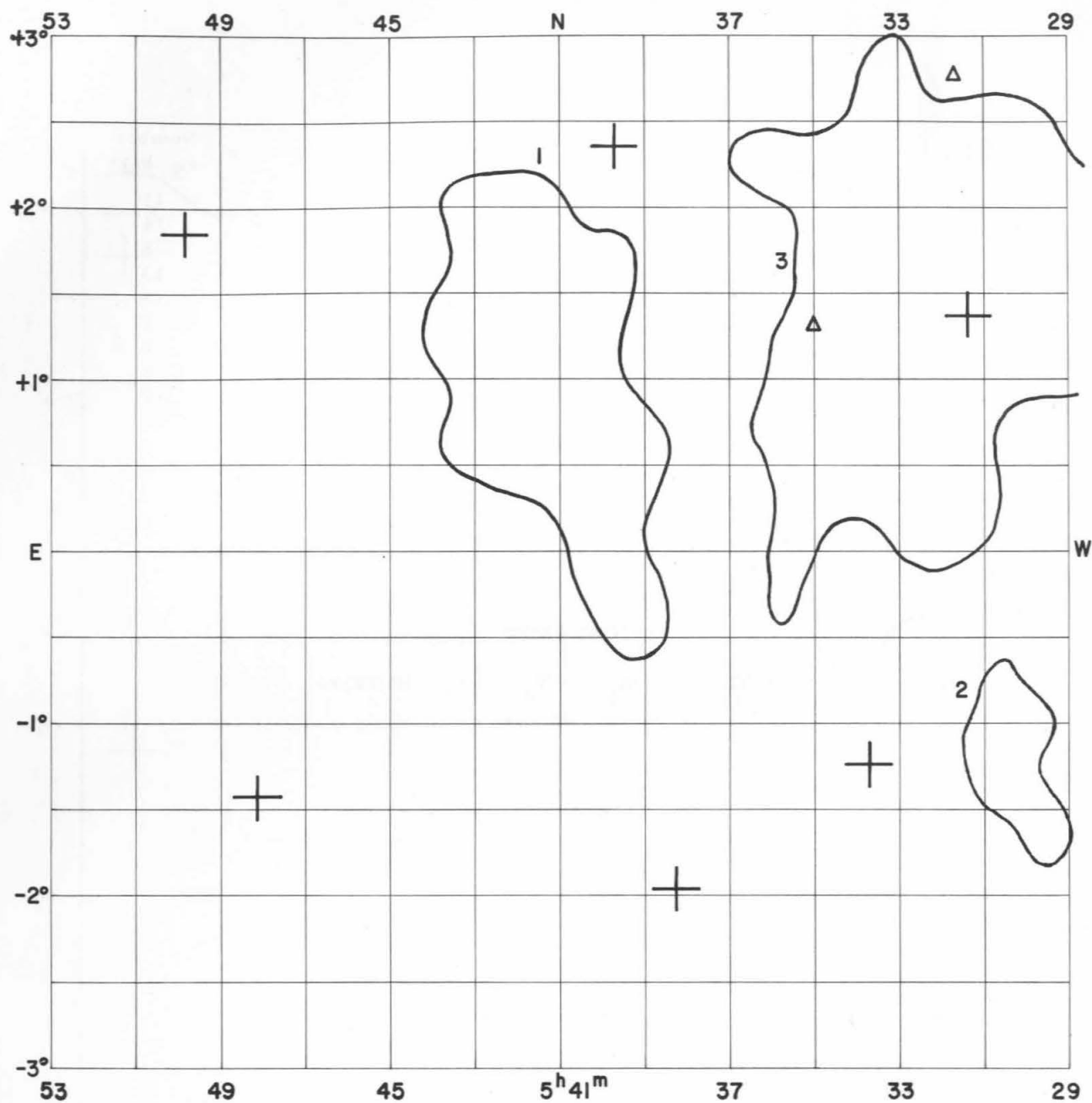
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0504.2 + 0251	compact	88	2.7	D	11
0505.6 - 0240	compact	101	3.5	MD	14
0506.4 + 0016	open	90	6.3	MD	8
0507.9 - 0110	medium compact	140	8.1	Near	13
0508.8 + 0241	compact	89	2.3	D	7
0510.0 + 0458	compact	1071	31.7	Near	1
0511.4 + 0151	medium compact	65	2.1	D	6
0517.3 + 0303	medium compact	66	1.5	D	5
0518.0 + 0045	open	72	3.8	D	12
0518.4 + 0110	medium compact	84	1.6	VD	10
0523.1 + 0141	compact	74	1.8	VD	4
0525.8 - 0208	medium compact	64	2.0	VD	9
0528.0 + 0023	compact	73	1.7	D	3
0531.3 + 0127	open	157	14.4	Near	2

Average number of galaxies per cluster = 159.6

GALAXIES

Position α 1950 δ				NGC IC*	m _p	V _s km/sec	Remarks
h	m	o	i				
5	06.2	+01	55		15.6		
5	06.3	-00	38		15.1		
5	06.6	-00	55		15.7		
5	06.6	-00	45		15.7		extremely diffuse
5	07.1	-00	18		15.6		
5	07.5	+00	52		15.4		
5	07.6	-00	46		15.2		double system
5	07.6	+00	50		14.6		
5	07.7	-00	47		15.7		compact
5	07.9	-00	47		15.7		diffuse
5	08.1	+00	21		13.9		
5	08.3	-02	45		14.0		
5	08.6	-01	08		15.7		
5	08.9	-00	38		15.6		
5	09.0	-00	38		14.7		
5	10.2	+02	40		14.6		
5	10.3	-02	17		15.6		
5	10.5	+00	55		15.7		
5	11.1	+01	54		15.7		
5	11.4	+02	15		15.7		
5	11.5	+02	28		15.6		
5	11.6	+01	50		15.5		
5	13.6	-00	12		14.6		
5	16.7	+01	16		14.7		double system
5	20.4	-00	11		15.5		
5	22.7	+00	22		15.0		
5	24.8	+01	12		15.7		



FIELD No. 396

$5^{\text{h}}41^{\text{m}} + 0^{\circ}00'$

Survey Plate No. 435

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	i	"	
6891	5	31	22.3	+	1	22 29	6.42
6960	5	33	40.5	-	1	13 56	1.75
7089	5	38	14.1	-	1	58 03	2.05
7131	5	39	41.0	+	2	20 39	6.61
7335	5	48	05.7	-	1	26 32	7.9
7380	5	49	50.6	+	1	50 40	5.01

CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0530.3 - 0114	medium compact	85	4.0	MD	2
0531.3 + 0127	open	157	14.4	Near	3
0541.3 + 0101	open	99	9.6	Near	1

Average number of galaxies per cluster = 113.7

GALAXIES

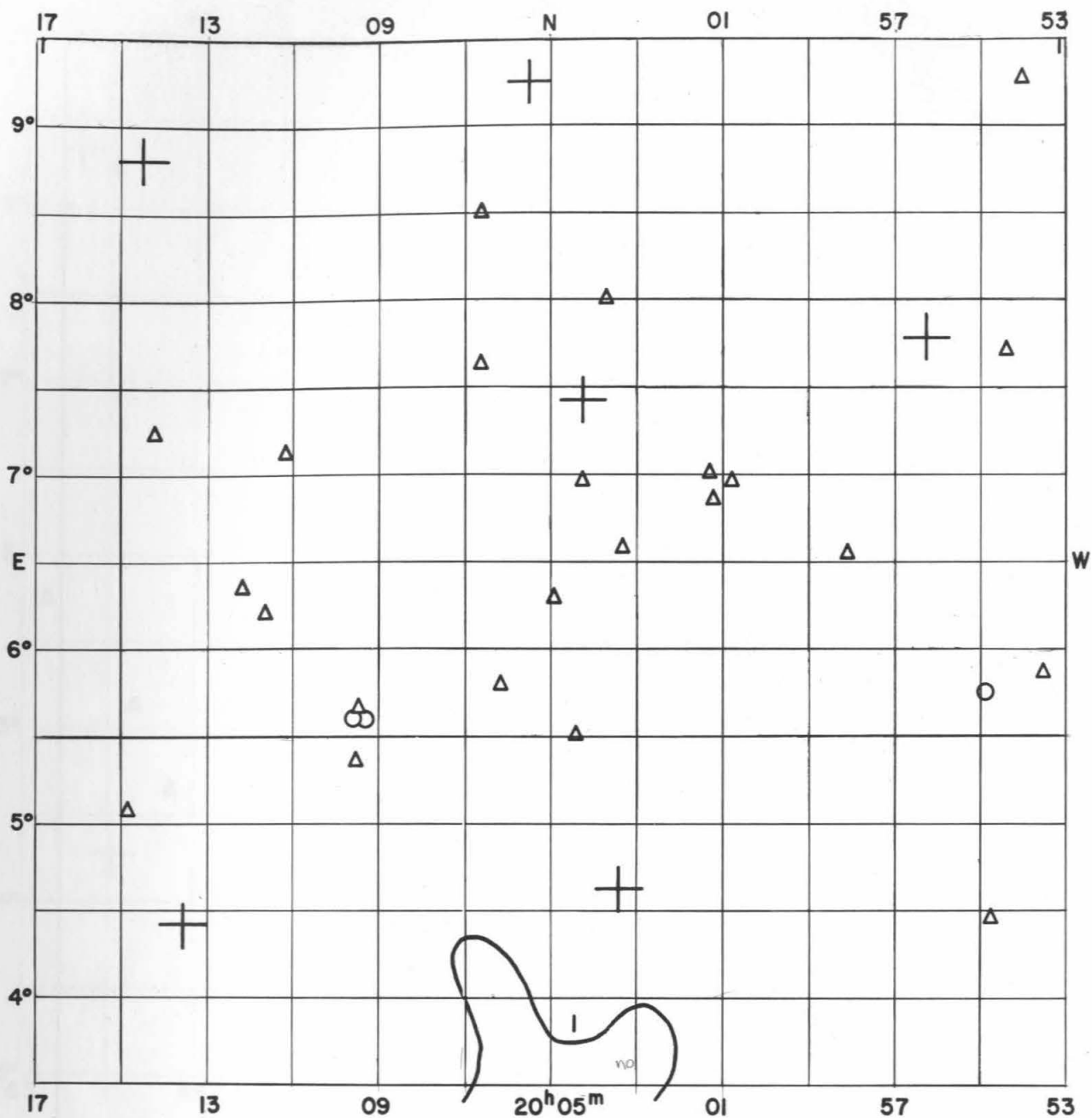
Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
5	31.7	+02 46		15.5		
5	35.0	+01 18		15.7		

CLUSTERS OF GALAXIES

No clusters in this field

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
19	35.1	+06 15		15.7		
19	36.7	+08 42		15.5		
19	37.0	+06 14		15.7		
19	39.2	+03 32		15.5		compact
19	43.1	+05 28		15.3		
19	46.3	+03 51		15.7		
19	46.5	+03 22		15.5		
19	46.8	+03 23		15.7		
19	46.9	+04 02		15.1		
19	46.9	+07 02		15.7		
19	49.0	+03 26		15.6		diffuse
19	49.6	+04 40		15.5		
19	50.5	+05 08		15.7		
19	50.9	+08 13		15.6		
19	52.5	+05 45		15.2		diffuse spiral



FIELD No. 398

$20^{\text{h}}05^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 805

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
27662	19	56	06.8	+	7	47 03	7.5
27878	20	03	26.8	+	4	37 52	6.74
27896	20	04	12.4	+	7	25 53	6.94
27929	20	05	25.7	+	9	15 11	6.5
28148	20	13	36.7	+	4	25 37	6.57
28179	20	14	35.3	+	8	48 28	6.59

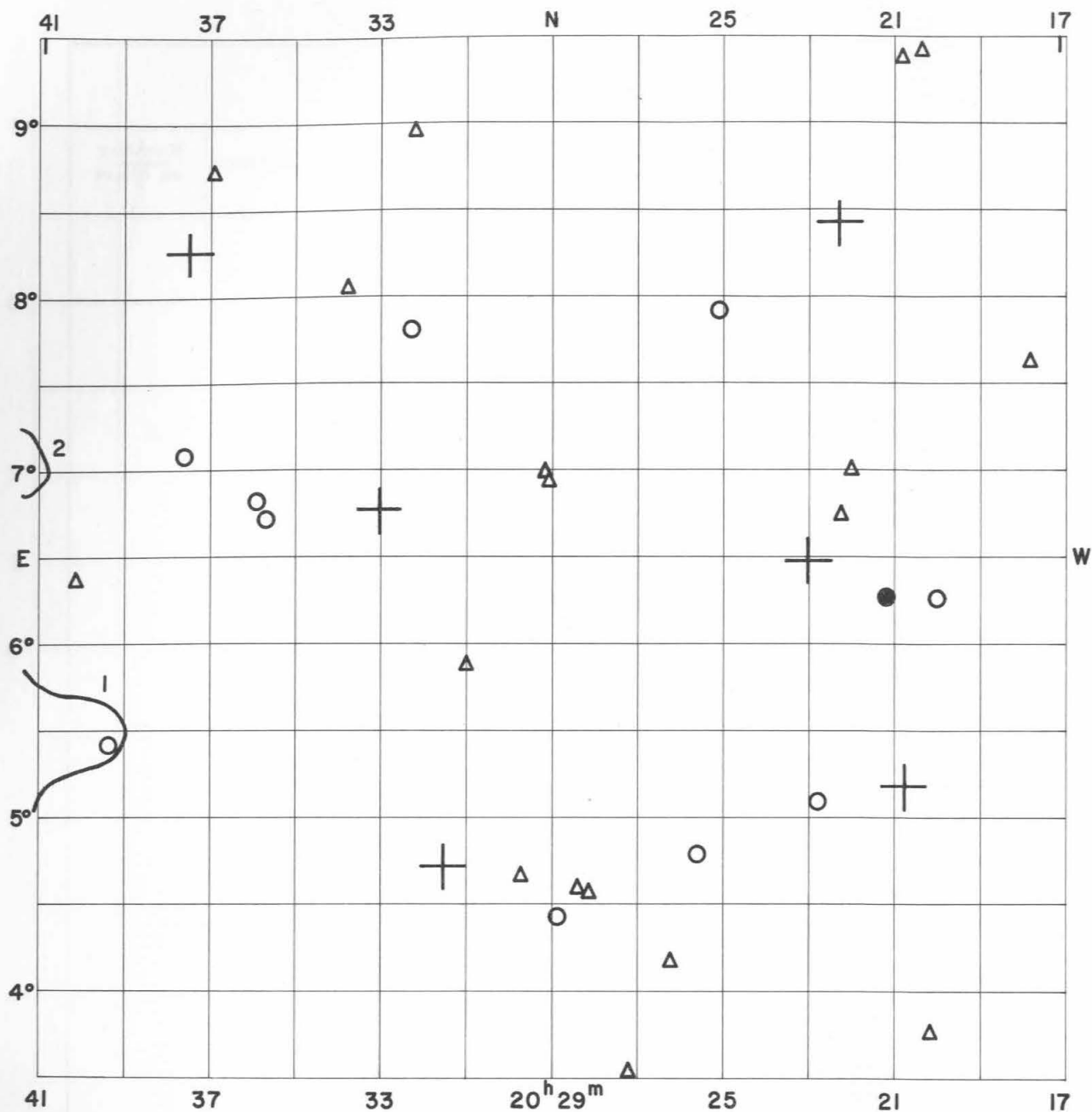
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2006.0 + 0304	medium compact	98	8.6	Near	1

Average number of galaxies per cluster = 98.0

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α 1950	δ					
h m	o ' "					
19 53.5	+05 52			15.3		
19 53.8	+09 16			15.1		
19 54.3	+07 42			15.1		compact
19 54.8	+04 27			15.5		
19 54.8	+05 45			14.6		
19 58.0	+06 33			15.5		compact
20 00.7	+06 57			15.3		very compact
20 01.2	+06 51			15.4		
20 01.2	+07 01			15.6		
20 03.3	+06 36			15.5		
20 03.6	+08 01			15.7		
20 04.3	+06 58			15.7		
20 04.4	+05 32			15.7		
20 04.9	+06 19			15.3		
20 06.1	+05 49			15.6		
20 06.5	+07 38			15.6		
20 06.6	+08 31			15.4		
20 09.4	+05 37			14.8		
20 09.5	+05 22			15.4		
20 09.5	+05 41			15.7		
20 09.6	+05 37			14.9		
20 11.1	+07 07			15.3		
20 11.7	+06 13			15.7		
20 12.2	+06 22			15.6		compact
20 14.2	+07 14			15.1		compact
20 14.9	+05 05			15.5		



FIELD No. 399

$20^{\text{h}}29^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 315

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
28351	20	20	42.0	+	5	10 55	5.41
28389	20	22	12.6	+	8	26 04	6.62
28404	20	22	57.9	+	6	28 40	6.61
28614	20	31	30.6	+	4	43 36	6.68
28661	20	33	02.1	+	6	46 24	6.51
28788	20	37	33.6	+	8	16 10	7.4

CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
2041.5 + 0702	medium compact	57	1.8	VD	2
2042.9 + 0531	open	106	7.7	Near	1

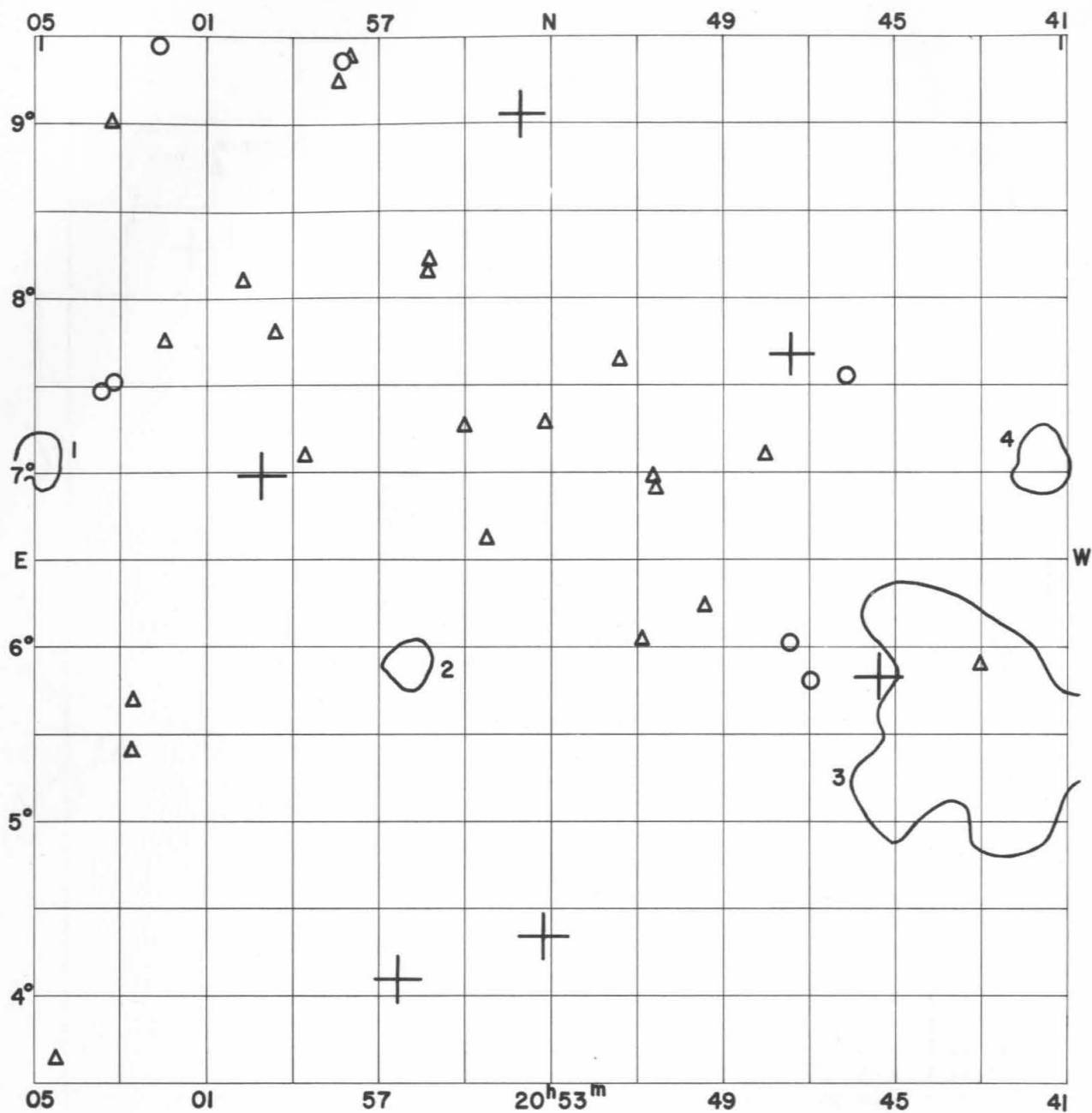
Average number of galaxies per cluster = 81.5

GALAXIES

Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o				
20	17.7	+07 37		15.6		
20	19.9	+06 16	1316*	14.9		
20	20.2	+03 46		15.7		diffuse
20	20.2	+09 25		15.4		
20	20.6	+09 22		15.7		
20	21.1	+06 17	6906	13.7		
20	21.9	+07 00		15.3		
20	22.2	+06 45		15.1		
20	22.8	+05 06		14.7		
20	25.0	+07 56	6917	14.3		
20	25.6	+04 48		15.0		
20	26.3	+04 12		15.2		
20	27.2	+03 33		15.1		
20	28.2	+04 35		15.6		
20	28.5	+04 36		15.5		compact
20	28.9	+04 27		15.0		
20	29.0	+06 57		15.6		
20	29.1	+06 59		15.5		
20	29.7	+04 41		15.6		
20	30.9	+05 52		15.7		compact
20	32.1	+08 58		15.3		
20	32.2	+07 48		14.7		double system
20	33.8	+08 03		15.7		compact
20	35.7	+06 44		15.0		
20	35.9	+06 50	6944	14.6	+ 4487	very compact
20	36.9	+08 44		15.2		very compact
20	37.6	+07 05		14.9		
20	39.3	+05 25		15.0		
20	40.2	+06 22		15.7		very compact

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951	Pettit 1954	Humason, Mayall, Sandage 1956	Holmberg 1958
6944	-	14.81 E1	14.4 E1	-



FIELD No. 400

$20^{\text{h}}53^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 836

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
28986	20	45	19.7	+	5	49 24	5.59
29039	20	47	21.1	+	7	40 38	6.23
29200	20	53	10.5	+	4	20 26	6.3
29211	20	53	39.4	+	9	04 07	7.14
29276	20	56	34.5	+	4	06 02	5.29
29361	20	59	44.5	+	6	58 55	6.64

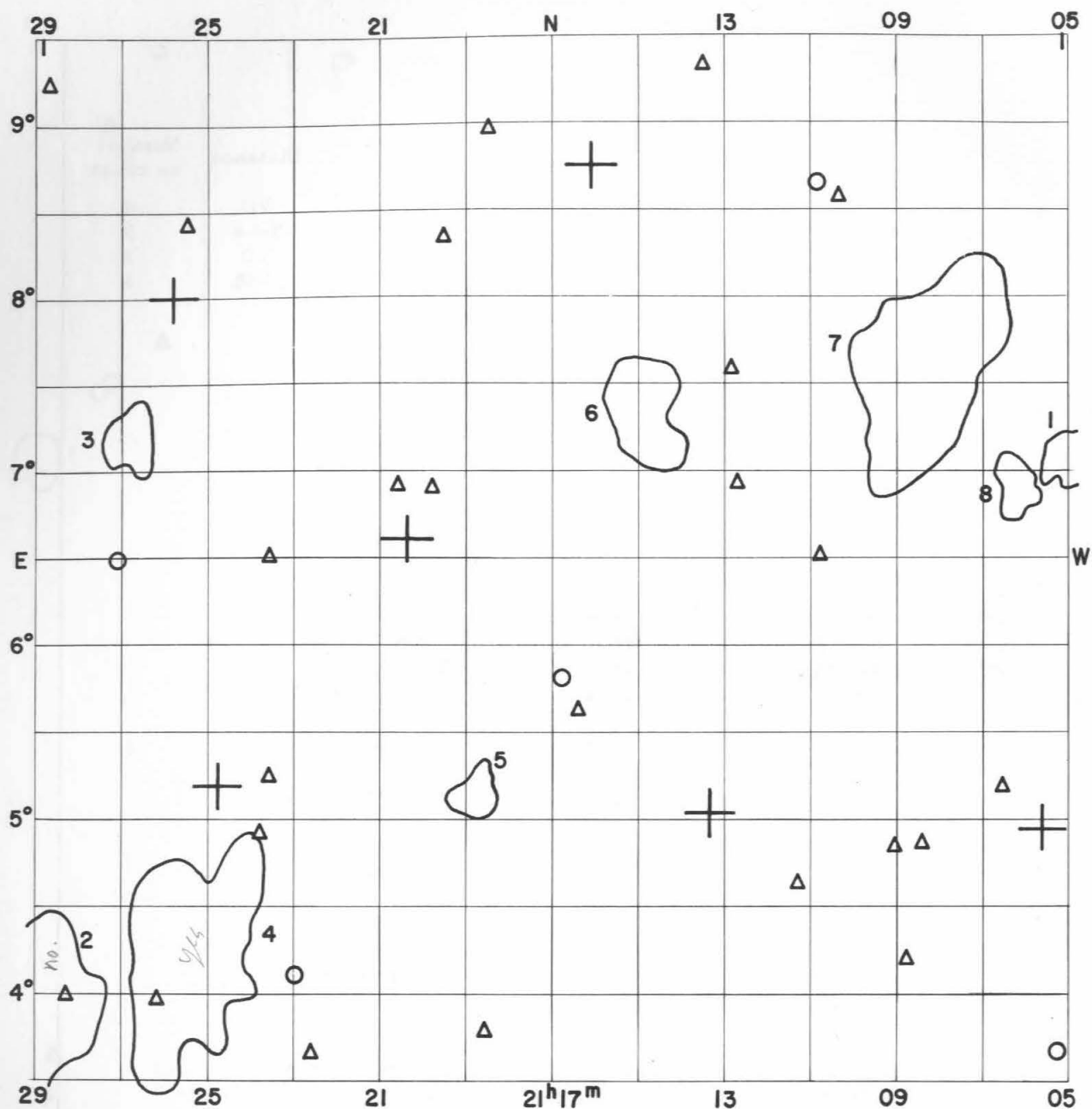
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2041.5 + 0702	medium compact	57	1.8	VD	4
2042.9 + 0531	open	106	7.7	Near	3
2056.3 + 0554	compact	51	1.4	VD	2
2105.0 + 0703	compact	61	1.5	ED	1

Average number of galaxies per cluster = 68.8

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
20	42.9	+05	53		15.3		
20	46.0	+07	33	6969	15.0		extremely compact
20	47.0	+05	48	6971	14.8		
20	47.4	+06	02		14.6		compact
20	48.0	+07	05		15.6		
20	49.3	+06	13		15.7		
20	50.5	+06	55		15.7		
20	50.6	+06	57		15.1		
20	50.9	+06	03		15.7		
20	51.4	+07	38		15.4		compact
20	53.1	+07	17		15.5		
20	54.5	+06	37		15.1		compact
20	54.9	+07	16		15.4		
20	55.8	+08	10		15.7		
20	55.8	+08	14		15.6		compact
20	57.6	+09	23		15.2		
20	57.8	+09	22		15.0		double system
20	57.9	+09	15		15.6		
20	58.7	+07	05		15.6		very compact
20	59.4	+07	47		15.7		
21	00.1	+08	07		15.5		
21	02.0	+07	46		15.3		
21	02.1	+09	26		14.4		double system, connected
21	02.7	+05	24		15.7		double system
21	02.7	+05	42		15.7		
21	03.2	+07	30		14.9		
21	03.2	+09	01		15.2		very compact
21	03.4	+07	27		15.0		
21	04.5	+03	38		15.7		compact



FIELD No. 401

$21^{\text{h}}17^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 552

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	i	"	
29538	21	05	31.0	+	4	56 57	6.68
29735	21	13	19.4	+	5	02 24	4.14
29813	21	16	09.8	+	8	44 56	7.40
29931	21	20	24.7	+	6	35 47	5.14
30036	21	24	47.1	+	5	10 27	6.74
30060	21	25	56.9	+	7	58 38	6.66

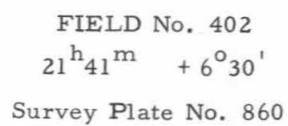
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2105.0 + 0703	compact	61	1.5	ED	1
2106.1 + 0654	medium compact	52	1.5	ED	8
2108.3 + 0732	open	154	5.3	MD	7
2114.9 + 0720	medium compact	102	2.8	D	6
2118.7 + 0508	compact	67	1.4	ED	5
2125.4 + 0411	medium compact	238	5.2	MD	4
2126.8 + 0709	medium compact	71	1.8	ED	3
2129.6 + 0352	open	187	5.4	MD	2

Average number of galaxies per cluster = 116.5

GALAXIES

Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
21	05.2	+03 40		14.5		double system, bridge compact
21	06.5	+05 12		15.7		
21	08.4	+04 52	1360*	15.6		
21	08.7	+04 12		15.7		
21	09.0	+04 51	1361*	15.4		
21	10.3	+08 34		15.5		
21	10.8	+06 32		15.4		
21	10.8	+08 39	7040	14.9		double system
21	11.3	+04 38		15.7		
21	12.7	+06 55		15.6		interacting double system
21	12.9	+07 35		15.6		very compact
21	13.5	+09 21		15.5		
21	16.4	+05 38		15.5		
21	16.8	+05 48		14.8		
21	18.5	+03 47	1375*	15.1		compact
21	18.5	+08 58		15.4		
21	19.5	+08 21		15.6		compact
21	19.7	+06 53		15.6		compact
21	20.6	+06 54		15.7		
21	22.5	+03 38		15.3		very compact
21	22.9	+04 06	1377*	14.8		
21	23.6	+05 14		15.6		double system
21	23.6	+06 30		15.6		compact
21	23.8	+04 53		15.7		compact
21	25.6	+08 23		15.5		extremely compact
21	26.1	+03 56		15.6		plume
21	27.2	+06 27		15.0		double nucleus
21	28.2	+03 58		15.7		
21	28.9	+09 12		15.6		



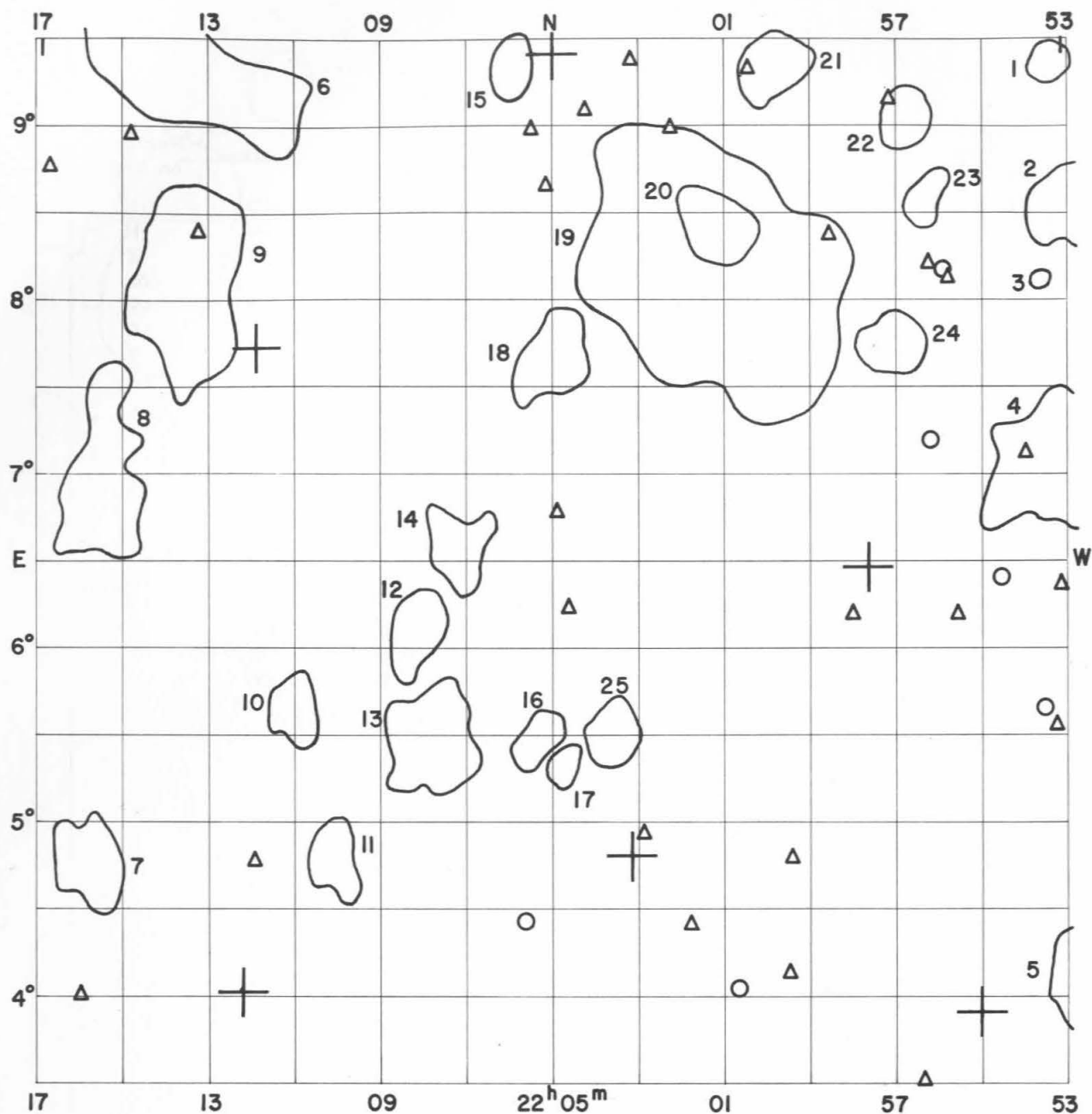
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2129.6 + 0352	open	187	5.4	MD	1
2130.6 + 0545	compact	56	2.0	ED	6
2131.3 + 0930	open	82	1.9	VD	2
2138.2 + 0700	open	88	5.2	D	20
2138.3 + 0331	compact	59	1.5	ED	19
2138.4 + 0809	compact	60	1.3	ED	18
2139.4 + 0914	medium compact	115	1.8	ED	3
2141.6 + 0454	compact	55	1.1	ED	16
2141.6 + 0750	medium compact	99	4.2	D	17
2142.5 + 0855	compact	158	2.4	ED	15
2143.0 + 0326	medium compact	209	3.4	VD	14
2147.0 + 0807	open	95	3.5	D	12
2147.4 + 0915	medium compact	65	2.2	VD	13
2149.6 + 0319	open	186	9.8	Near	10
2150.2 + 0820	open	171	5.4	MD	9
2150.7 + 0710	medium compact	114	1.9	ED	11
2152.5 + 0834	compact	253	2.9	D	5
2152.6 + 0405	open	110	2.3	VD	8
2153.1 + 0701	open	139	4.0	D	7
2153.2 + 0921	compact	73	1.2	ED	4

Average number of galaxies per cluster = 118.7

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
21	28.9	+09 12		15.6		
21	29.9	+06 22	7085	15.2		
21	31.1	+08 33		15.3		
21	31.3	+07 12		15.6		
21	31.7	+08 33		15.2		
21	31.8	+08 26		15.6		compact
21	33.6	+07 43		14.9		
21	33.7	+09 26		15.3		
21	35.7	+06 31		15.7		double system
21	35.7	+08 45		15.3		
21	35.9	+08 35		15.7		
21	37.1	+08 39	7100	14.7		compact
21	37.2	+06 04	7102	14.4		double system
21	38.1	+06 17		15.7		
21	39.2	+03 53	1395*	15.5		very compact
21	39.7	+05 23		15.6		
21	43.4	+09 15	1398*	15.4		
21	43.5	+07 38		15.3		
21	43.6	+04 10	1399*	15.6		compact
21	43.7	+09 20		15.5		
21	43.8	+09 27		15.6		
21	44.1	+08 04		15.4		
21	48.5	+06 00		15.5		
21	49.6	+08 10		15.3		double system
21	50.5	+04 03		15.6		
21	51.4	+06 30		15.7		
21	52.2	+06 10		15.2		
21	53.0	+06 22		15.5		



FIELD No. 403

$22^{\text{h}}05^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 795

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
30725	21	54	59.6	+	3	55 09	7.05
30779	21	57	38.0	+	6	28 37	5.99
30894	22	03	09.4	+	4	48 48	4.90
30940	22	05	03.0	+	9	25 34	7.02
31111	22	11	59.5	+	7	43 39	6.60
31117	22	12	15.3	+	4	02 00	7.06

CLUSTERS OF GALAXIES

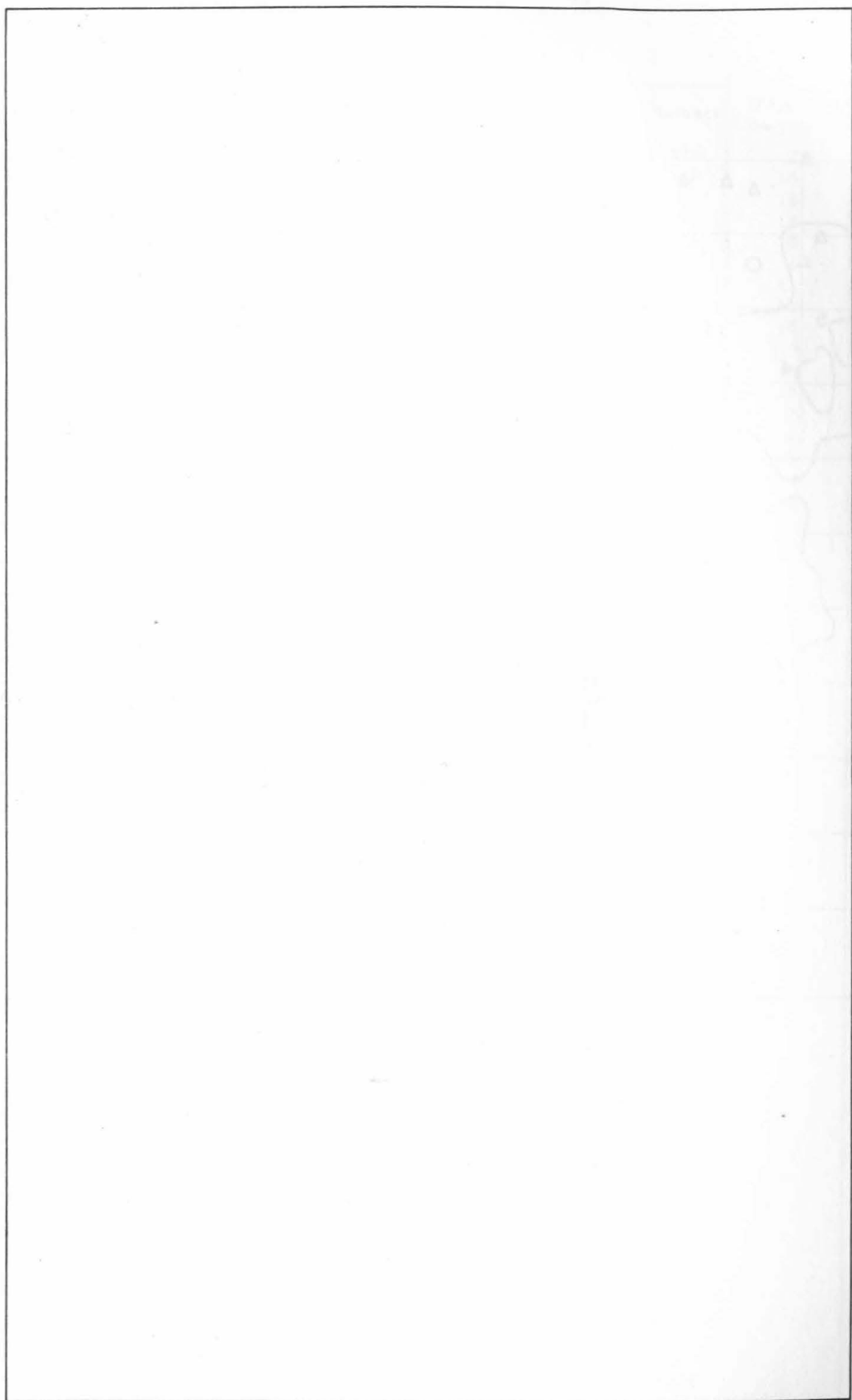
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2152.5 + 0834	compact	253	2.9	D	2
2152.6 + 0405	open	110	2.3	VD	5
2153.1 + 0701	open	139	4.0	D	4
2153.2 + 0921	compact	73	1.2	ED	1
2153.4 + 0806	compact	53	0.6	ED	3
2156.2 + 0834	compact	65	1.4	ED	23
2156.6 + 0902	medium compact	60	1.8	ED	22
2157.0 + 0744	medium compact	63	2.0	VD	24
2159.8 + 0921	open	94	2.1	ED	21
2201.0 + 0825	medium compact	70	2.4	D	20
2201.1 + 0808	open	117	8.4	Near	19
2203.6 + 0530	medium compact	62	1.9	VD	25
2204.7 + 0518	compact	63	1.2	ED	17
2205.0 + 0740	open	114	2.5	ED	18
2205.3 + 0529	open	63	1.5	VD	16
2205.9 + 0920	open	83	1.6	ED	15
2207.1 + 0635	open	61	2.1	VD	14
2207.8 + 0528	medium compact	140	3.1	ED	13
2208.1 + 0606	compact	102	2.0	ED	12
2210.0 + 0445	medium compact	72	1.8	VD	11
2211.0 + 0538	medium compact	85	1.8	VD	10
2213.5 + 0804	open	129	4.6	D	9
2213.6 + 0926	medium compact	108	5.4	MD	6
2215.4 + 0656	open	87	3.7	D	8
2215.8 + 0446	open	136	2.4	ED	7

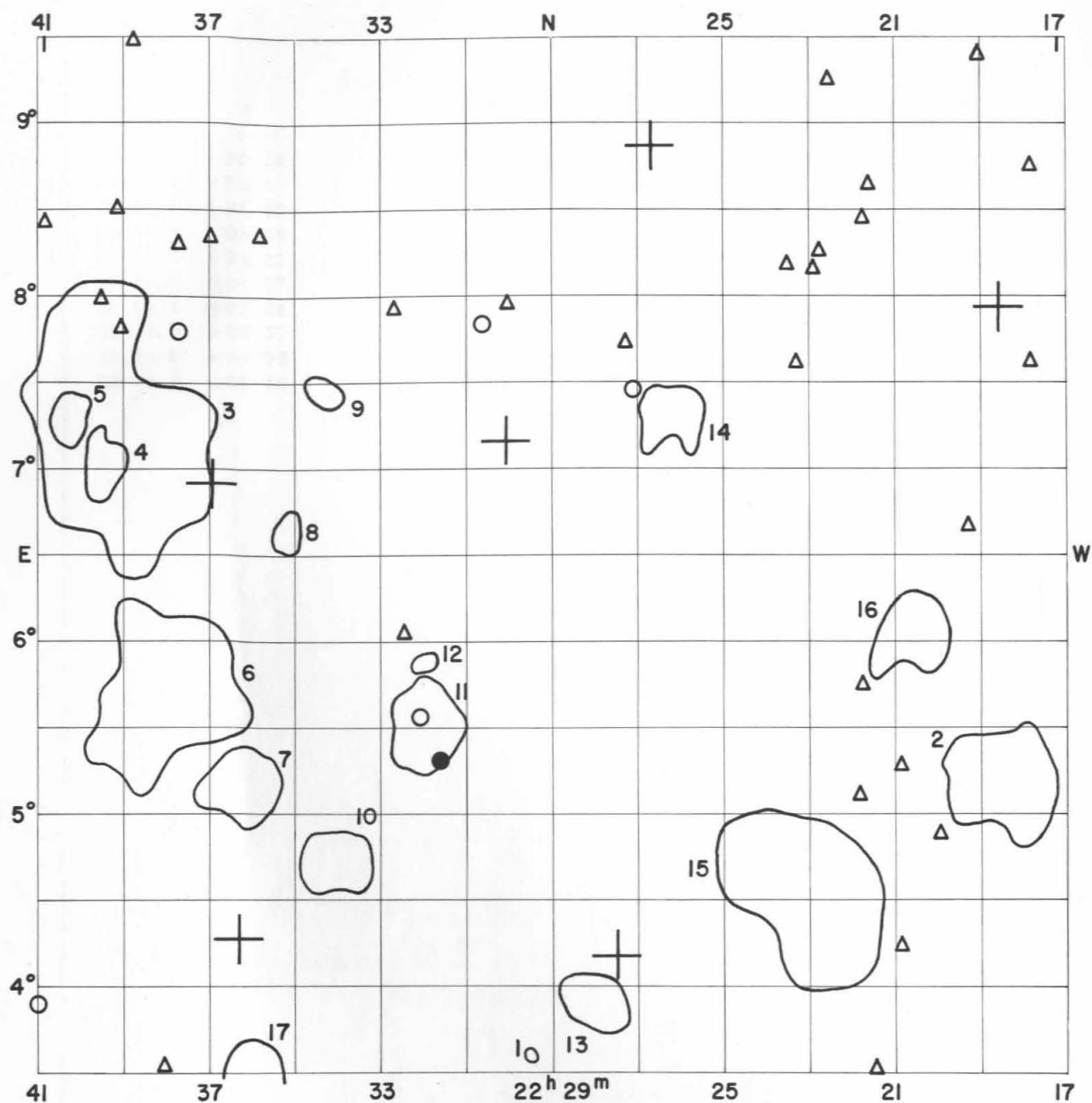
Average number of galaxies per cluster = 96.1

GALAXIES

Position a 1950 δ h m o			NGC IC*	m_p	V_s km/sec	Remarks
21 53.0 + 06 22				15.5		
21 53.3 + 05 34				15.5		
21 53.5 + 05 40				14.7		double system
21 53.9 + 07 07				15.4		
21 54.5 + 06 25				14.8		double system
21 55.5 + 06 12				15.7		
21 55.7 + 08 08				15.7		compact
21 55.9 + 08 11			1414*	14.9		very compact
21 56.2 + 07 12				14.9		compact
21 56.2 + 08 13				15.5		
21 56.4 + 03 31			5151*	15.5		compact
21 57.1 + 09 10				15.2		
21 58.0 + 06 12				15.6		
21 58.5 + 08 23				15.7		
21 59.4 + 04 47				15.7		
21 59.5 + 04 08			1418*	15.3		
22 00.4 + 09 20				15.5		extremely compact
22 00.7 + 04 03			1423*	14.8		
22 01.8 + 04 25				15.2		compact
22 02.2 + 09 00				15.6		
22 02.9 + 04 56				15.4		
22 03.2 + 09 23			5161*	15.5		
22 04.2 + 09 06				15.4		compact

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ					
h	m	o	'				
22	04.7	+06	14		15.5		
22	04.9	+06	47		15.4		
22	05.2	+08	40		15.3		
22	05.5	+08	59		15.7		
22	05.7	+04	27		14.7		double system
22	12.0	+04	47		15.5		
22	13.3	+08	24		15.4		
22	14.9	+08	57		15.2		
22	16.0	+04	02		15.3		
22	16.8	+08	46		15.6		





FIELD No. 404

$22^{\text{h}}29^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 1157

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
31239	22	18	25.9	+	7	56 03	6.17
31408	22	26	38.2	+	8	52 23	5.82
31425	22	27	26.2	+	4	10 37	5.47
31483	22	30	03.4	+	7	09 38	9.0
31605	22	36	18.0	+	4	16 11	6.90
31624	22	36	57.4	+	6	54 44	8.7

CLUSTERS OF GALAXIES

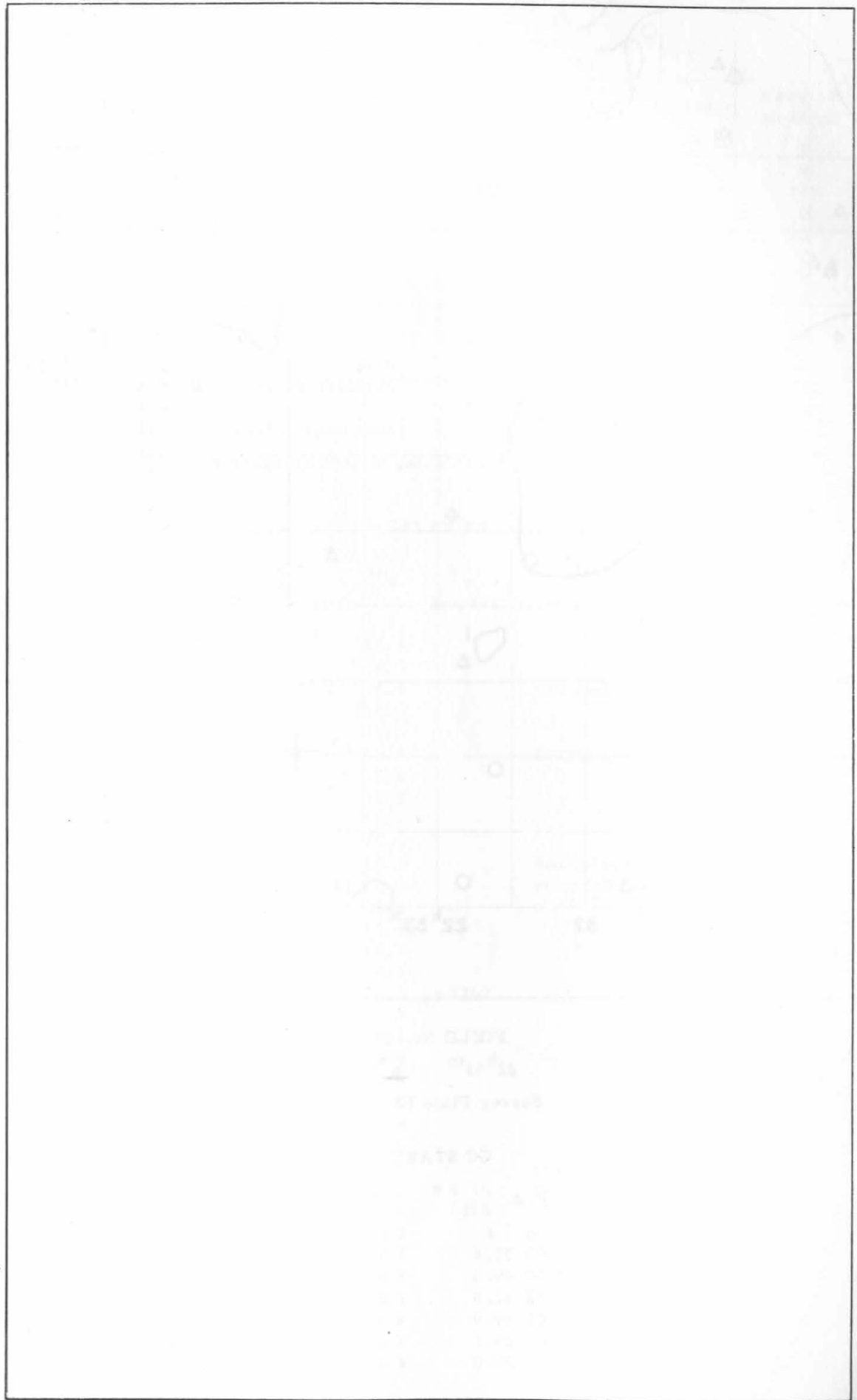
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2218.4 + 0511	open	74	3.5	VD	2
2220.5 + 0602	medium compact	99	2.3	VD	16
2223.0 + 0431	medium compact	97	5.1	D	15
2226.1 + 0718	compact	92	2.1	ED	14
2227.9 + 0354	medium compact	81	1.9	ED	13
2229.5 + 0335	compact	45	0.4	ED	1
2231.9 + 0530	compact	88	2.3	VD	11
2231.9 + 0552	medium compact	39	0.6	ED	12
2234.0 + 0443	open	69	2.1	VD	10
2234.3 + 0726	compact	49	1.1	ED	9
2235.2 + 0637	compact	53	1.1	ED	8
2235.9 + 0329	medium compact	65	2.0	ED	17
2236.2 + 0509	medium compact	126	2.3	ED	7
2238.0 + 0540	medium compact	119	4.9	D	6
2239.0 + 0710	medium compact	139	6.7	MD	3
2239.5 + 0700	compact	108	1.6	VD	4
2240.3 + 0716	medium compact	54	1.4	ED	5

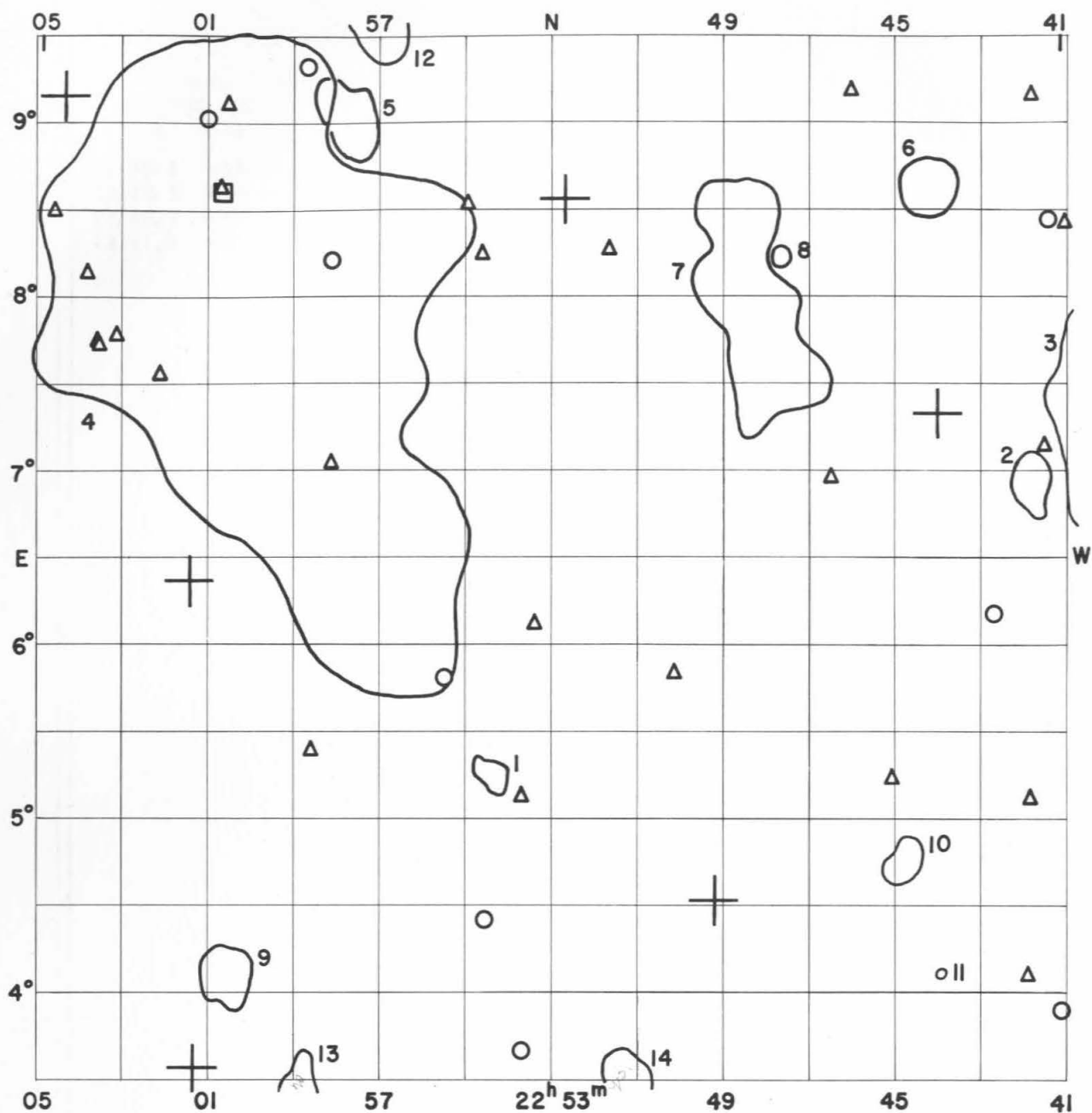
Average number of galaxies per cluster = 82.2

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
22	17.6	+08 45		15.4		
22	17.7	+07 37		15.5		
22	18.8	+09 23		15.7		
22	19.2	+06 40		15.1		compact
22	19.9	+04 52	1444*	15.4		
22	20.8	+04 14		15.6		
22	20.8	+05 17		15.4		
22	21.5	+03 31		15.7		compact
22	21.5	+08 38		15.5		
22	21.6	+08 26		15.7		
22	21.7	+05 44		15.3		
22	21.8	+05 06		15.6		
22	22.4	+09 15		15.1		
22	22.7	+08 15		15.5		
22	22.8	+08 09		15.7		
22	23.3	+07 36		15.5		very compact
22	23.5	+08 11		15.6		
22	27.1	+07 27		15.0		
22	27.3	+07 43	5223*	15.6		triple system
22	30.0	+07 57		15.2		
22	30.6	+07 50		14.2		
22	31.6	+05 19	7311	13.4		
22	32.1	+05 33	7312	14.5		
22	32.4	+06 03		15.7		extremely diffuse
22	32.7	+07 55		15.5		
22	35.8	+08 22		15.6		
22	37.0	+08 22		15.7		
22	37.7	+07 47		14.3		
22	37.7	+08 18		15.5		
22	38.1	+03 32		15.7		
22	38.9	+09 29		15.1		compact
22	39.1	+07 48		15.7		extremely compact

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
22	39.2	+08	29		15.6		
22	39.5	+07	58		15.6		
22	40.9	+08	25		15.5		
22	41.0	+03	53	7360	14.5		





FIELD No. 405

$22^{\text{h}} 53^{\text{m}} + 6^{\circ} 30'$

Survey Plate No. 821

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
31772	22	43	57.4	+	7	19 09	6.84
31878	22	49	09.3	+	4	31 12	7.17
31963	22	52	42.5	+	8	32 56	4.95
32134	23	01	19.9	+	3	33 02	4.58
32139	23	01	29.1	+	6	20 48	6.34
32196	23	04	29.0	+	9	08 20	4.69

CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
2239.0 + 0710	medium compact	139	6.7	MD	3
2241.7 + 0657	medium compact	80	1.6	VD	2
2243.9 + 0408	compact	35	0.3	ED	11
2244.1 + 0839	compact	67	1.8	VD	6
2244.7 + 0446	medium compact	53	1.2	ED	10
2247.6 + 0815	compact	35	0.6	ED	8
2248.2 + 0756	medium compact	95	4.9	D	7
2251.2 + 0331	compact	86	1.6	ED	14
2254.3 + 0515	compact	56	1.0	ED	1
2257.2 + 0945	medium compact	320	3.1	D	12
2257.8 + 0902	medium compact	109	2.1	ED	5
2258.8 + 0327	medium compact	71	1.4	VD	13
2259.6 + 0746	open	185	14.9	Near	4
2300.5 + 0407	medium compact	57	1.7	ED	9

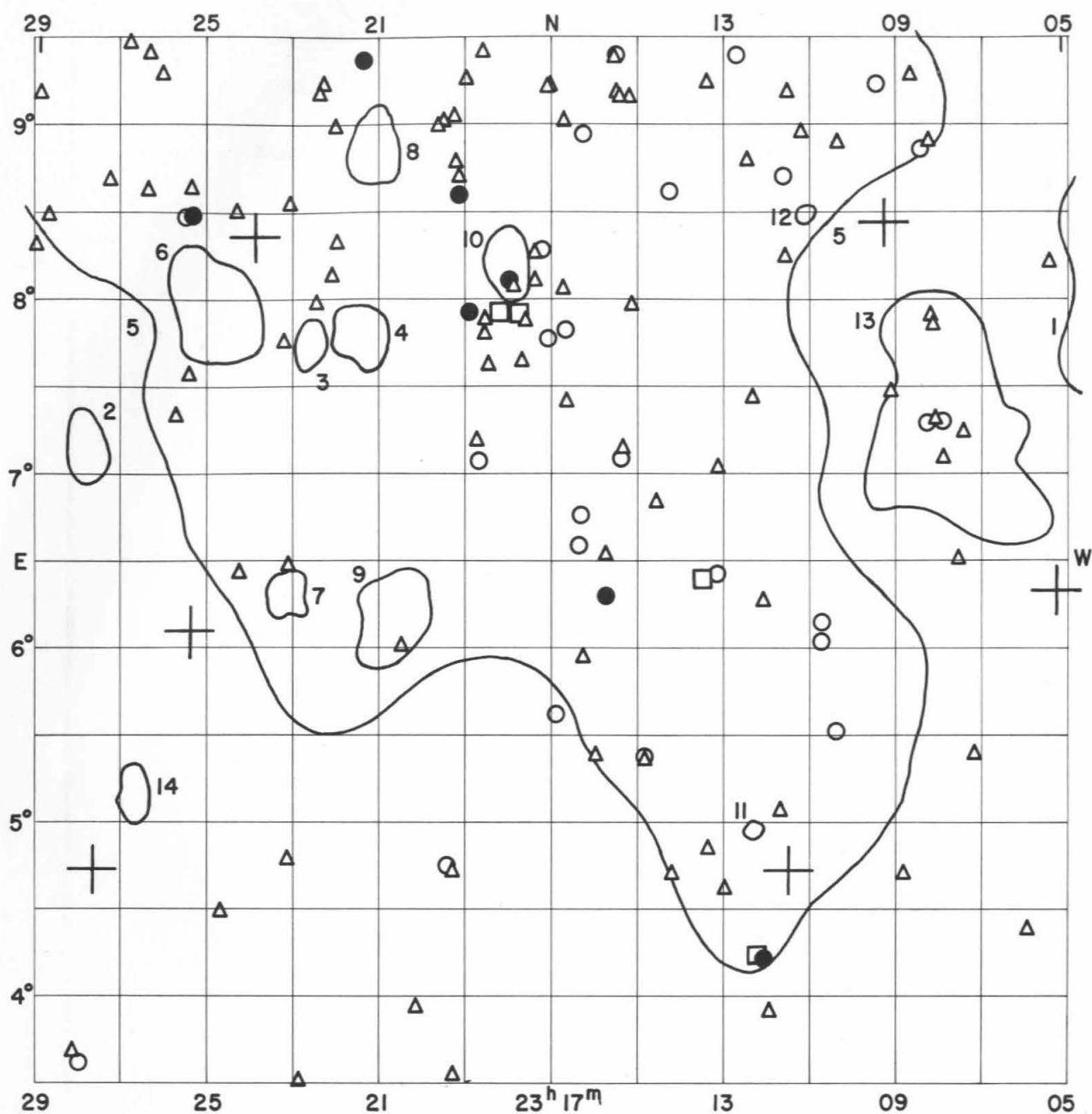
Average number of galaxies per cluster = 99.1

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	i				
22	40.9	+08	25		15.5		
22	41.0	+03	53	7360	14.5		
22	41.3	+08	27	7362	14.9		compact
22	41.5	+07	07		15.5		
22	41.7	+09	10		15.5		
22	41.8	+04	06		15.3		double system
22	41.8	+05	07		15.6		
22	42.6	+06	10		14.2		
22	45.0	+05	13		15.7		
22	45.9	+09	11		15.6		
22	46.5	+06	57		15.2		double system
22	50.1	+05	49		15.3		very diffuse spiral
22	51.6	+08	15		15.4		
22	53.4	+06	07		15.4		
22	53.6	+03	40	7422	14.3		
22	53.7	+05	07		15.5		
22	54.5	+04	25	1460*	15.0	+ 7262	
22	54.6	+08	14	7427	15.4		
22	54.9	+08	32	7430	15.1		
22	55.4	+05	48		14.9		
22	58.1	+07	01	7455	15.3		
22	58.1	+08	12	7451	15.0		
22	58.6	+05	23		15.4		
22	58.7	+09	20		14.6		
23	00.6	+09	05		15.6		very diffuse
23	00.7	+08	35	7469	13.0	+ 4736	m _H = 13.0
23	00.8	+08	36	5283*	15.2	+ 4875	
23	01.0	+09	01		14.9		
23	02.2	+07	31		15.7		
23	03.2	+07	45		15.7		
23	03.6	+07	42		15.6		
23	03.6	+07	43		15.6		
23	03.9	+08	07		15.1		
23	04.6	+08	28		15.3		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
7469	-	-	12.84	Sa	12.7	Sa	-	-
1460*	-	-	15.13	S0	15.3	S0	-	-



FIELD No. 406

$23^{\text{h}}17^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 316

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
32214	23	05	11.2	+	6	20 02	8.2
32302	23	09	12.6	+	8	26 53	5.15
32340	23	11	27.9	+	4	43 29	6.93
32605	23	23	55.0	+	8	22 20	7.06
32647	23	25	25.8	+	6	06 15	4.45
32682	23	27	40.5	+	4	44 12	7.32

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2259.6 + 0746	open	185	14.9	Near	1
2307.6 + 0713	compact	175	6.1	Near	13
2311.1 + 0828	compact	45	0.5	ED	12
2312.3 + 0457	compact	31	0.5	ED	11
2318.0 + 0812	medium compact	73	1.8	ED	10
2320.0 + 0845	medium compact	969	33.8	Near	5
2320.7 + 0609	medium compact	88	2.6	VD	9
2321.1 + 0851	medium compact	103	2.0	VD	8
2321.4 + 0746	medium compact	89	1.9	VD	4
2322.6 + 0744	medium compact	62	1.2	ED	3
2323.1 + 0617	compact	71	1.4	ED	7
2324.8 + 0756	open	66	3.1	VD	6
2326.7 + 0508	compact	81	1.3	ED	14
2327.8 + 0707	medium compact	86	1.8	ED	2

Average number of galaxies per cluster = 151.7

GALAXIES

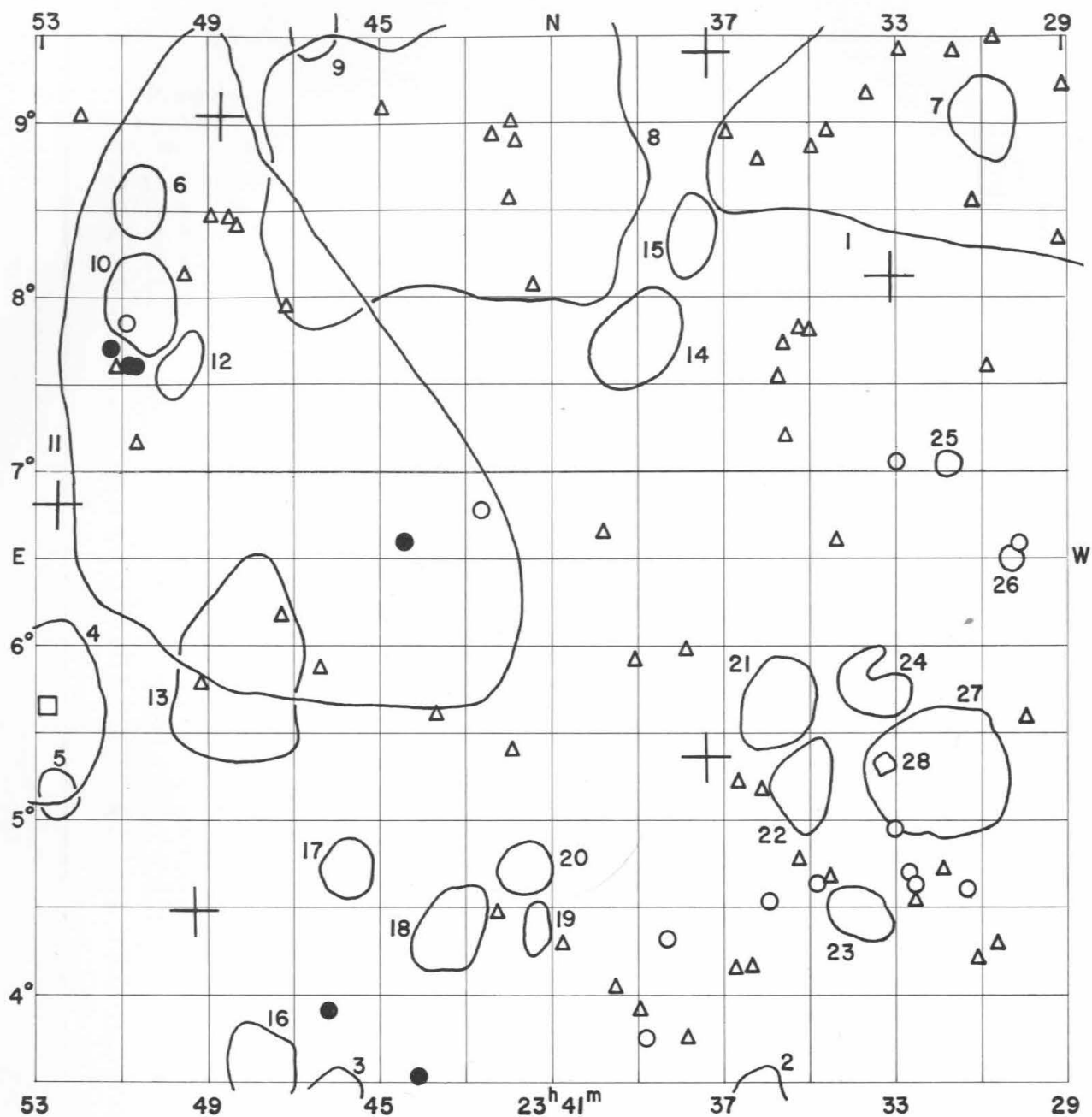
Position a 1950 δ h m o			NGC IC*	m_p	V_s km/sec	Remarks
23 05.3	+08	13		15.6		
23 05.9	+04	23		15.4		
23 07.1	+05	24		15.6		
23 07.4	+06	31		15.2		
23 07.4	+07	15		15.3		double system
23 07.8	+07	05		15.7		compact
23 07.8	+07	18	7499	15.0	+11916	
23 08.0	+07	18	7501	15.3	+12714	
23 08.0	+07	52		15.5		very compact
23 08.1	+07	55		15.6		
23 08.1	+08	55		15.6		
23 08.2	+07	17	7503	14.9	+13229	
23 08.3	+08	52		14.8		double system
23 08.6	+09	17		15.6		double system
23 08.8	+04	42		15.2		
23 09.0	+07	27		15.6		compact
23 09.3	+09	14		14.2		
23 10.3	+05	31	1474*	14.9		
23 10.3	+08	53		15.5		
23 10.6	+06	03	7518	14.5		
23 10.6	+06	08		14.8		
23 11.2	+08	57	5291*	15.6		
23 11.5	+08	15		15.6		
23 11.5	+08	42	7529	14.6		
23 11.5	+09	11		15.6		
23 11.7	+05	05		15.6		double system
23 11.9	+03	55		15.1		
23 12.0	+04	13	7537	13.8		
23 12.0	+06	16		15.7		
23 12.2	+04	15	7541	12.7	+ 2672	$m_H = 12.8$ Sb
23 12.2	+07	26		15.7		
23 12.3	+08	47		15.7		
23 12.6	+09	24		15.0		double system
23 13.0	+04	37		15.1		very compact
23 13.1	+06	25	7557	15.0		

Position			NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ				
h	m	o				
23	13.1	+07 01	7564	15.6		
23	13.3	+04 51		15.6		
23	13.3	+09 14		15.5		
23	13.4	+06 24	7562	13.0	+ 3806	
23	14.2	+04 43		15.7		
23	14.2	+08 37		14.8		
23	14.6	+06 50		15.7		diffuse
23	14.8	+05 23		15.4		
23	14.8	+05 24		15.0		
23	15.1	+07 59	7586	15.1		double system, connected
23	15.1	+09 09	7579	15.4		compact
23	15.3	+07 05		14.8		
23	15.3	+07 08	7583	15.2		
23	15.4	+09 09	7584	15.3		
23	15.4	+09 10		15.7		
23	15.4	+09 23		15.6		double system
23	15.5	+09 24	7587	14.9		
23	15.8	+06 18	7591	13.8		
23	15.8	+06 33		15.5		
23	16.0	+05 23		15.6		
23	16.2	+08 57	7601	14.7		diffuse
23	16.3	+05 56		15.6		
23	16.3	+06 46		14.9		compact
23	16.4	+06 35		15.0		double system
23	16.6	+07 25		15.6		
23	16.6	+07 50	5309*	15.0		
23	16.7	+08 04	7608	15.2		
23	16.7	+09 00		15.5		
23	16.9	+05 38	1481*	14.5		
23	17.0	+09 13	7609	15.3		double system, two bridges
23	17.1	+07 46	7611	14.0	+ 3383	
23	17.1	+09 12		15.7		
23	17.2	+08 17	7612	14.3		
23	17.3	+08 17		15.7		
23	17.4	+08 07	7615	15.3		
23	17.6	+07 39		15.7		
23	17.6	+07 53	7617	15.1	+ 4072	
23	17.7	+07 55	7619	12.7	+ 3757	$m_H = 12.8$ E
23	17.8	+08 04	7621	15.6		
23	17.9	+08 06	7623	13.9	+ 3463	
23	18.2	+07 56	7626	12.8	+ 3357	$m_H = 12.8$ E
23	18.4	+07 38		15.6		
23	18.6	+07 05		14.8		
23	18.6	+07 49		15.6		
23	18.6	+07 54		15.6		compact
23	18.6	+09 25		15.5		very compact
23	18.7	+07 11		15.6		
23	18.8	+07 56	7631	13.8		
23	18.9	+09 17		15.7		
23	19.1	+08 36	7634	13.7		
23	19.1	+08 42		15.5		
23	19.2	+03 33		15.3		
23	19.2	+08 47		15.5		very diffuse
23	19.2	+09 03		15.6		
23	19.3	+04 43		15.2		
23	19.4	+04 45		14.9		
23	19.4	+09 01		15.7		
23	19.6	+09 00		15.7		

Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o				
23	20.1	+03 57		15.6		
23	20.4	+06 01		15.7		
23	21.3	+09 23	7648	13.5		
23	22.0	+08 20		15.6		
23	22.0	+08 59		15.5		diffuse spiral
23	22.1	+08 08		15.5		extremely diffuse
23	22.3	+09 15		15.6		
23	22.4	+09 12		15.4		
23	22.5	+07 58		15.2		
23	22.8	+03 31		15.5		very compact
23	23.0	+08 33		15.7		
23	23.1	+06 28		15.6		
23	23.2	+04 47		15.7		
23	23.2	+07 45		15.4		
23	24.3	+06 26		15.7		compact
23	24.4	+08 30		15.7		
23	24.7	+04 29		15.2		triple system
23	25.4	+07 33		15.7		
23	25.4	+08 30	7674	13.6		double system
23	25.4	+08 38		15.7		
23	25.5	+08 29	7675	14.8		
23	25.7	+07 20		15.3		
23	26.1	+09 16		15.6		compact
23	26.4	+08 36		15.6		
23	26.4	+09 24		15.5		compact
23	26.8	+09 29		15.3		double system
23	27.4	+08 40		15.4		
23	27.9	+03 37	7685	15.0		diffuse spiral
23	28.1	+03 41		15.2		very compact
23	28.7	+08 29		15.7		
23	28.8	+09 11		15.6		compact with jet
23	29.0	+08 20		15.6		compact

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
7499	-	-	15.18	S0	15.1	E5	-	-
7501	-	-	15.37	E3	15.5	E3	-	-
7503	-	-	14.64	E1	14.7	E1	-	-
7537	-	-	13.86	Sbc	-	-	-	-
7541	-	-	12.58	Sc	12.6	Sc	-	-
7562	-	-	12.87	E2	12.9	E2	-	-
7611	-	-	13.65	S0	13.6	S0	-	-
7617	-	-	14.97	S0	15.0	S0	-	-
7619	-	-	12.40	E3	12.4	E3	-	-
7623	-	-	13.91	E4	14.0	E4	-	-
7626	-	-	12.66	E1	12.7	E1	-	-



FIELD No. 407

$23^{\text{h}}41^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 796

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
32805	23	33	03.2	+	8	06 24	7.30
32878	23	37	22.1	+	9	24 01	6.07
32879	23	37	22.6	+	5	21 18	4.28
33094	23	48	48.0	+	9	02 10	6.11
33110	23	49	19.9	+	4	28 02	6.67
33172	23	52	34.2	+	6	47 35	6.12

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2320.0 + 0845	medium compact	969	33.8	Near	1
2330.3 + 0630	compact	45	0.7	ED	26
2330.8 + 0903	compact	110	2.2	ED	7
2331.7 + 0705	medium compact	53	0.8	ED	25
2331.9 + 0517	compact	165	4.4	ED	27
2333.3 + 0521	compact	39	0.5	ED	28
2333.4 + 0546	open	66	2.0	ED	24
2333.8 + 0428	open	109	1.7	ED	23
2335.2 + 0512	medium compact	130	2.2	VD	22
2335.8 + 0541	open	128	2.5	VD	21
2336.1 + 0321	medium compact	85	2.1	ED	2
2337.7 + 0821	medium compact	91	1.9	ED	15
2339.0 + 0745	open	58	2.9	VD	14
2341.3 + 0423	open	55	1.1	ED	19
2341.6 + 0443	medium compact	89	1.6	ED	20
2343.3 + 0421	open	127	2.3	ED	18
2343.4 + 0845	medium compact	245	11.1	Near	8
2345.7 + 0442	open	73	1.7	ED	17
2346.1 + 0322	open	92	1.8	ED	3
2346.6 + 0932	medium compact	55	1.6	ED	9
2347.5 + 0707	open	120	16.0	Near	11
2347.7 + 0332	open	113	2.3	ED	16
2348.2 + 0548	medium compact	121	5.2	MD	13
2349.7 + 0734	open	51	1.6	ED	12
2350.6 + 0758	medium compact	85	2.7	ED	10
2350.6 + 0831	medium compact	76	1.8	ED	6
2352.4 + 0508	medium compact	108	1.3	ED	5
2353.2 + 0535	medium compact	136	5.4	D	4

Average number of galaxies per cluster = 128.4

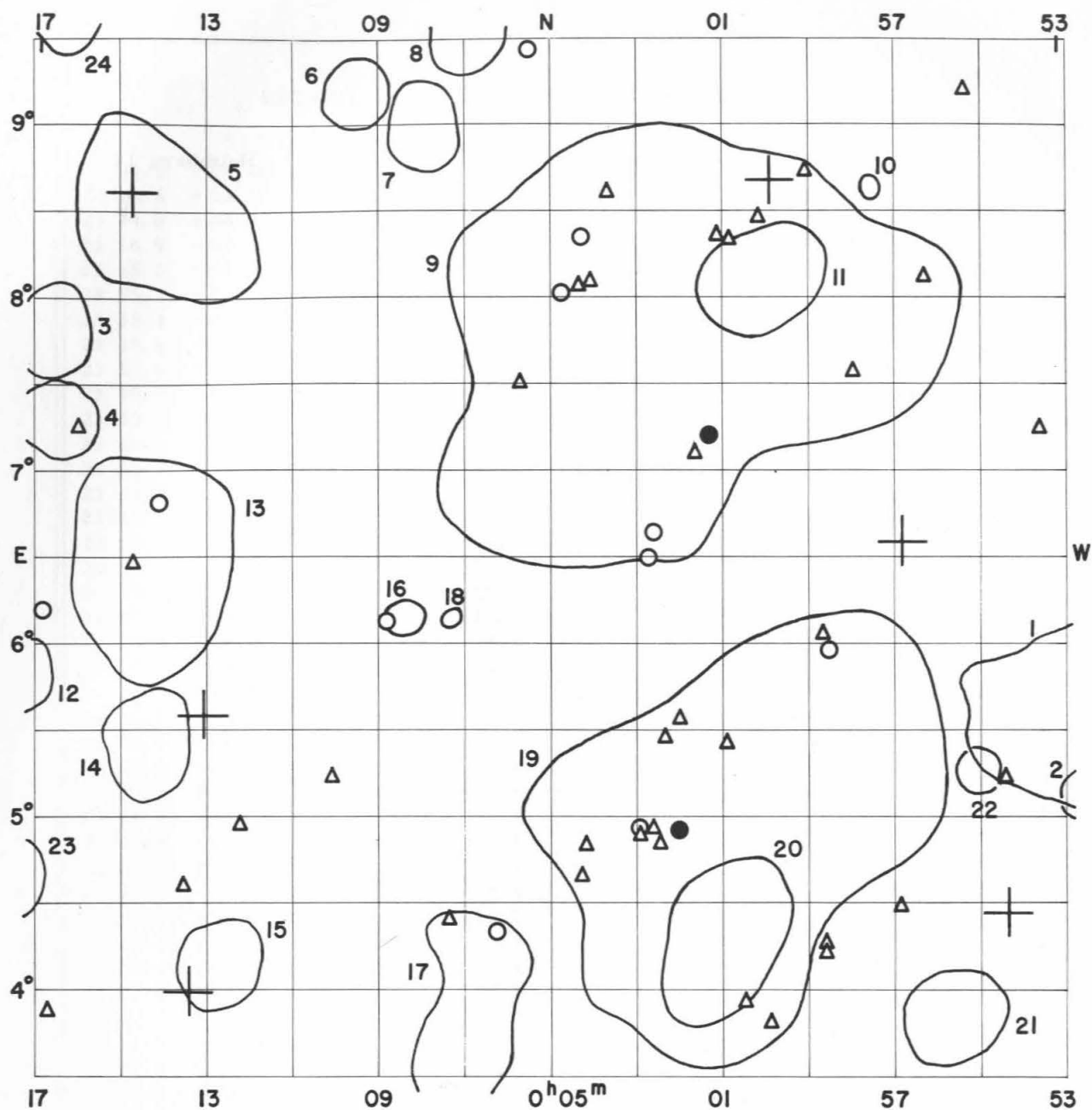
GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
23	28.8	+09 11		15.6		compact with jet
23	29.0	+08 20		15.6		compact
23	29.9	+05 35		15.6		double system, connected
23	30.1	+06 35		15.0		
23	30.6	+09 29		15.1		
23	30.7	+04 17	1500*	15.4		
23	30.8	+07 36		15.7		compact
23	31.1	+04 12		15.4		
23	31.1	+08 33		15.4		
23	31.3	+04 37	7696	14.8		
23	31.6	+09 24		15.7		
23	31.9	+04 43		15.3		
23	32.6	+04 32	7705	15.4		
23	32.6	+04 38	7704	14.8		
23	32.7	+04 43	7706	14.6		
23	32.8	+09 24		15.6		
23	32.9	+07 03		14.4		crescent shaped galaxy
23	33.0	+04 57		14.5		
23	33.6	+09 09		15.6		very compact
23	34.4	+06 35		15.5		compact

Position			NGC IC*	m_p	V_s ft/sec	Remarks
α h m	1950	δ o ' "				
23	34.5	+04 40		15.5		
23	34.6	+08 57		15.7		
23	34.8	+04 38		15.0		double system
23	34.9	+08 52		15.7		compact
23	35.0	+07 48		15.7		
23	35.2	+04 46		15.7		
23	35.3	+07 48		15.7		very diffuse
23	35.6	+07 13		15.6		very diffuse
23	35.6	+07 43		15.4		
23	35.7	+07 32		15.3		
23	35.9	+04 32	1503*	14.3		
23	36.1	+05 10		15.3		
23	36.2	+08 47		15.2		double system
23	36.3	+04 10		15.3		
23	36.7	+04 08		15.7		
23	36.7	+05 13		15.3		
23	36.8	+08 57		15.3		
23	37.8	+03 45		15.5		
23	37.8	+05 59		15.5		
23	38.2	+04 20		14.9		
23	38.7	+03 45	1504*	14.5		
23	38.9	+03 55		15.5		
23	39.1	+05 54		15.6		double system
23	39.5	+04 03		15.6		
23	39.8	+06 39		15.2		
23	40.7	+04 17		15.4		triple system
23	41.4	+08 03		15.7		
23	41.8	+08 52		15.5		double system
23	41.9	+05 24		15.4		
23	41.9	+09 00		15.6		
23	42.0	+08 34		15.7		
23	42.2	+04 28	1506*	15.4		
23	42.4	+08 56		15.3		triple system
23	42.6	+06 46		14.8		
23	43.6	+05 36		15.5		
23	44.1	+03 30		13.8		
23	44.4	+06 35	7751	13.9		
23	45.0	+09 04		15.6		
23	46.2	+03 55	7756	13.9		
23	46.4	+05 52		15.4		
23	47.2	+07 55		15.5		very compact
23	47.4	+06 10		15.7		
23	48.4	+08 24		15.5		
23	48.6	+08 27		15.4		
23	49.0	+08 27		15.5		
23	49.2	+05 46		15.2		double system
23	49.6	+08 07		15.1		
23	50.7	+07 08		15.5		diffuse
23	50.7	+07 36	7778	13.8		compact
23	50.9	+07 36	7779	13.6		
23	51.0	+07 50	7780	14.8		
23	51.2	+07 35	7781	15.2		
23	51.3	+07 42	7782	13.2		$m_H = 13.1$
23	52.1	+09 00		15.7		
23	52.8	+05 38	7785	13.0	+ 3846	$m_H = 12.9$

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
7785	-	-	13.27	E5	13.0	E5	-	-



FIELD No. 408
 $0^h 05^m + 6^\circ 30'$
 Survey Plate No. 1465

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
33209	23	54	13.5	+	4	26 48	6.87
33262	23	56	44.5	+	6	35 11	4.03
33340	23	59	50.4	+	8	40 43	6.34
298	0	13	04.3	+	5	33 56	7.21
304	0	13	23.1	+	3	58 24	7.02
340	0	14	49.8	+	8	35 52	6.98

CLUSTERS OF GALAXIES

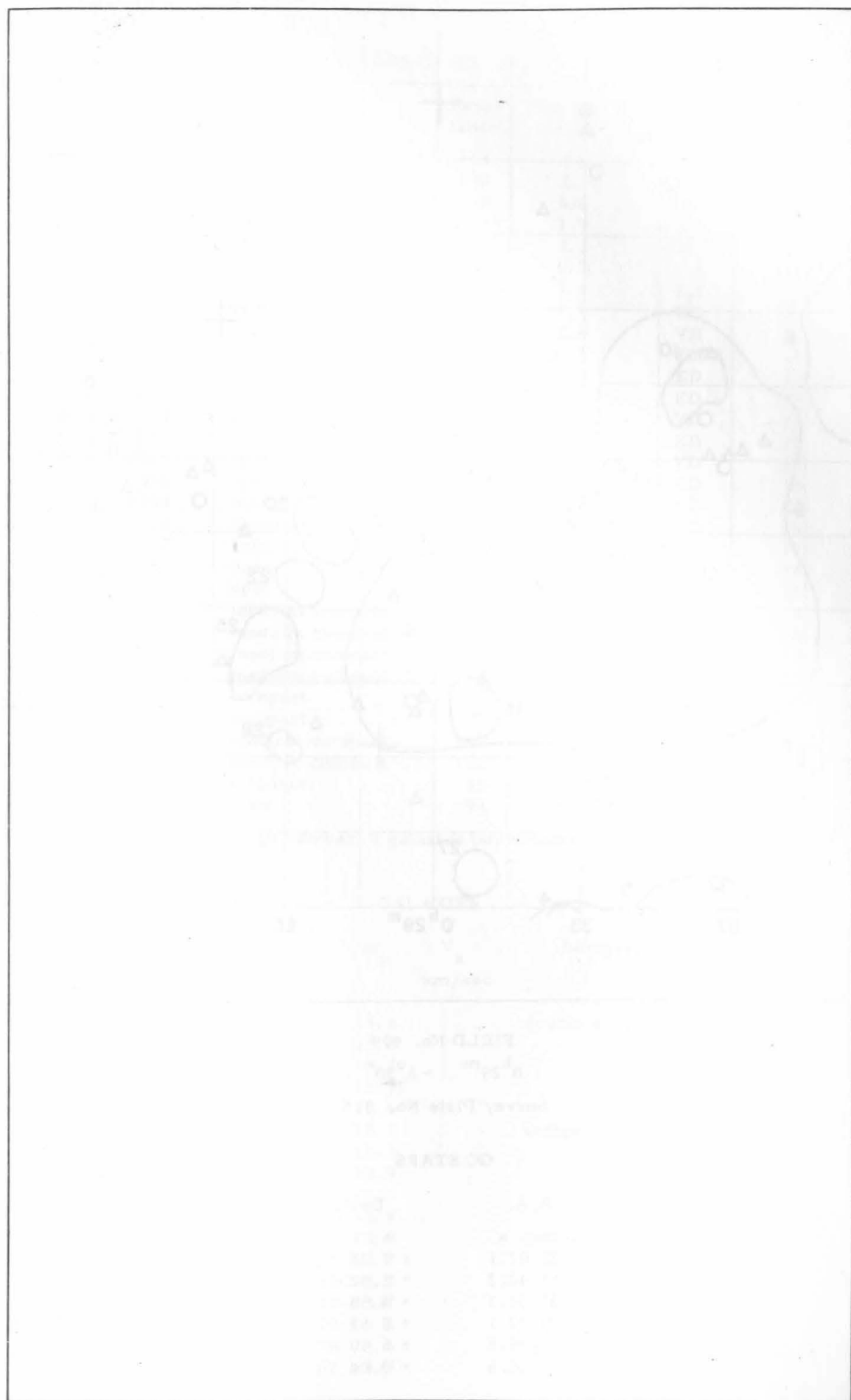
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2352.4 + 0508	medium compact	108	1.3	ED	2
2353.2 + 0535	medium compact	136	5.4	D	1
2355.0 + 0516	medium compact	37	1.3	ED	22
2355.6 + 0351	medium compact	100	3.1	VD	21
2357.5 + 0838	compact	35	0.6	ED	10
0000.1 + 0806	medium compact	88	3.6	D	11
0000.8 + 0452	open	157	12.1	Near	19
0000.9 + 0417	medium compact	84	4.3	D	20
0002.4 + 0744	open	177	14.0	Near	9
0006.8 + 0350	medium compact	104	4.4	MD	17
0006.9 + 0931	open	93	2.4	VD	8
0007.3 + 0608	compact	37	0.6	ED	18
0007.9 + 0859	open	81	2.5	ED	7
0008.4 + 0608	compact	55	1.2	ED	16
0009.6 + 0910	compact	87	2.2	ED	6
0012.7 + 0408	compact	78	2.6	VD	15
0014.0 + 0826	medium compact	150	5.5	VD	5
0014.3 + 0524	medium compact	120	3.1	VD	14
0014.3 + 0627	medium compact	246	6.1	MD	13
0016.5 + 0715	medium compact	113	2.5	ED	4
0016.6 + 0746	medium compact	90	2.7	VD	3
0017.2 + 1008	medium compact	133	5.6	VD	24
0017.3 + 0439	medium compact	61	1.9	VD	23
0017.4 + 0550	medium compact	75	2.1	ED	12

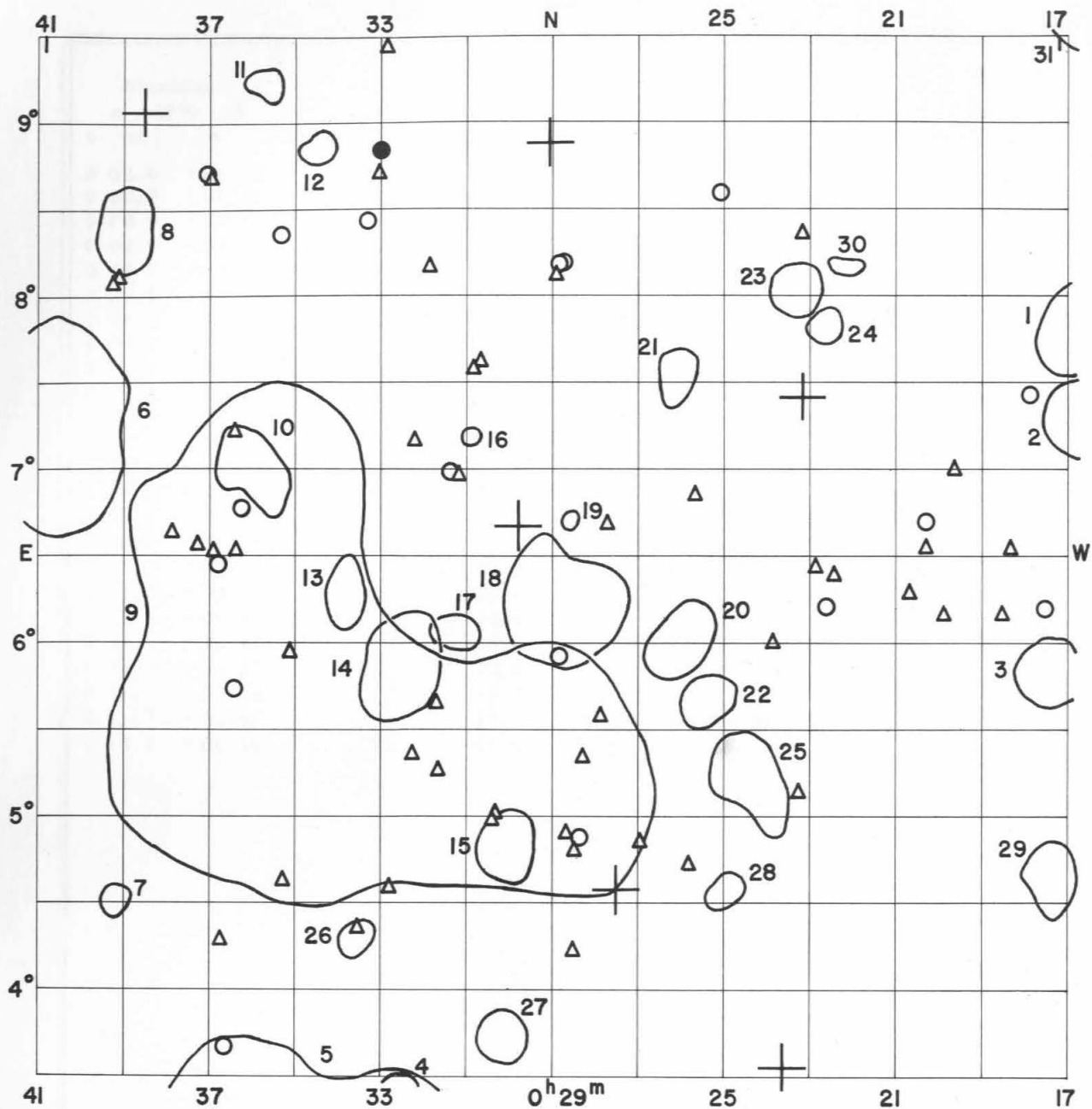
Average number of galaxies per cluster = 101.9

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
23	53.5	+07	15		15.5		very compact
23	54.4	+05	14		15.5		
23	55.2	+09	12		15.7		compact
23	56.2	+08	07		15.6		
23	56.8	+04	29		15.5		
23	57.9	+07	34		15.7		
23	58.5	+05	57	7802	14.7		
23	58.6	+04	13	5374*	15.4		
23	58.6	+04	15	5375*	15.3		
23	58.7	+06	03		15.7		
23	59.0	+08	44		15.6		
23	59.9	+03	48	1527*	15.4		
0	00.1	+08	27		15.7		
0	00.5	+03	56		15.5		
0	00.8	+08	20		15.4		double system
0	00.9	+05	25		15.2		
0	01.1	+08	21		15.6		
0	01.2	+07	11	7816	14.0		
0	01.6	+07	05	7818	15.1		
0	01.9	+05	34		15.3		
0	02.0	+04	55	7820	13.9		
0	02.3	+05	27		15.7		
0	02.5	+04	51		15.4		
0	02.6	+04	56	7825	15.5		

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
0	02.6	+06 38	7824	14.5		
0	02.7	+06 30		14.7		
0	02.9	+04 54		15.5		
0	02.9	+04 57	7827	14.6		
0	03.7	+08 36		15.7		
0	04.1	+08 05	7834	15.4		diffuse spiral
0	04.2	+04 50		15.3		
0	04.2	+08 21		15.0		
0	04.3	+04 40		15.6		very diffuse
0	04.4	+08 04	7838	15.3		double system
0	04.7	+08 02	3	14.6		
0	05.5	+09 26		14.9		
0	05.6	+07 30		15.4		
0	06.2	+04 20	12	14.5		
0	07.3	+04 25		15.3		double system
0	08.8	+06 06	36	14.5		
0	10.1	+05 14		15.4		
0	12.2	+04 57		15.6		
0	13.6	+04 36		15.6		
0	14.2	+06 47		14.6		
0	14.7	+06 27		15.4		
0	16.1	+07 14		15.7		
0	16.7	+03 51		15.3		double system
0	16.8	+06 10	75	14.8		





FIELD No. 409

$0^{\text{h}}29^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 915

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
502	0	23	07.1	+	7	24 53	7.18
515	0	23	42.2	+	3	32 56	6.89
587	0	27	34.3	+	4	35 01	6.61
620	0	29	02.1	+	8	53 07	7.29
636	0	29	48.8	+	6	40 47	5.66
817	0	38	36.6	+	9	04 56	6.53

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0016.5 + 0715	medium compact	113	2.5	ED	2
0016.6 + 0746	medium compact	90	2.7	VD	1
0017.2 + 1008	medium compact	133	5.6	VD	31
0017.3 + 0439	medium compact	61	1.9	VD	29
0017.4 + 0550	medium compact	75	2.1	ED	3
0022.1 + 0810	medium compact	37	0.7	ED	30
0022.6 + 0749	compact	57	1.1	ED	24
0023.2 + 0802	open	73	1.6	ED	23
0024.4 + 0513	medium compact	77	2.6	VD	25
0025.0 + 0434	medium compact	70	1.1	ED	28
0025.4 + 0540	medium compact	75	1.6	ED	22
0026.0 + 0600	medium compact	94	2.2	ED	20
0026.0 + 0732	compact	71	1.4	VD	21
0028.6 + 0642	compact	25	0.5	ED	19
0028.8 + 0613	open	71	3.8	VD	18
0030.0 + 0448	open	83	2.0	ED	15
0030.1 + 0344	medium compact	63	1.6	ED	27
0030.8 + 0712	compact	35	0.5	ED	16
0031.2 + 0602	compact	66	1.3	ED	17
0032.5 + 0551	open	63	3.0	VD	14
0032.6 + 0207	open	170	16.0	Near	5
0032.7 + 0317	medium compact	55	2.0	ED	4
0033.6 + 0417	medium compact	51	1.1	ED	26
0033.8 + 0538	medium compact	238	14.7	Near	9
0033.8 + 0615	medium compact	79	1.6	VD	13
0034.4 + 0851	compact	55	1.1	ED	12
0035.8 + 0913	compact	70	1.1	ED	11
0036.0 + 0659	medium compact	103	2.2	ED	10
0039.0 + 0822	medium compact	122	2.2	ED	8
0039.2 + 0430	compact	45	0.9	ED	7
0040.6 + 0715	open	93	5.4	VD	6

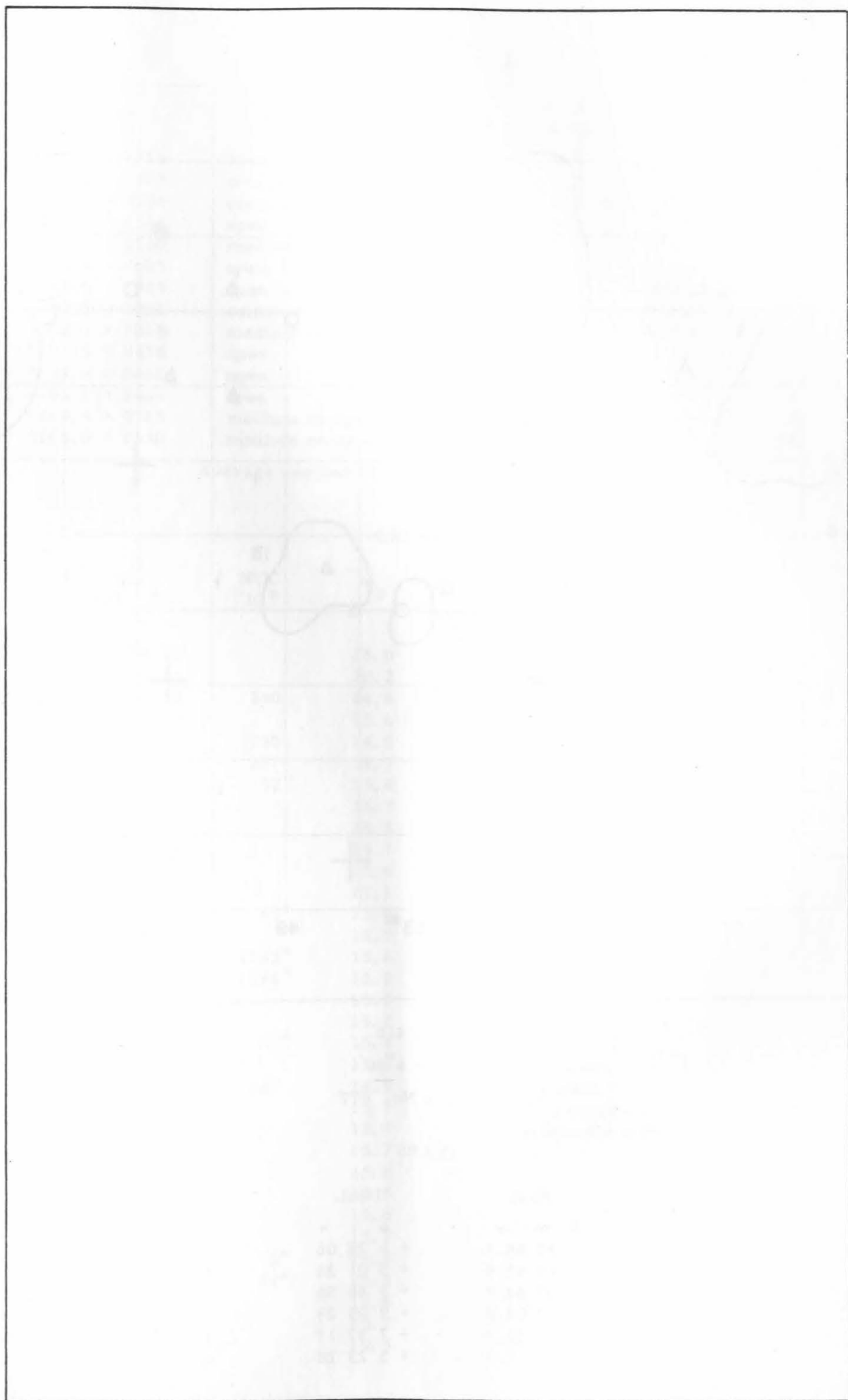
Average number of galaxies per cluster = 81.1

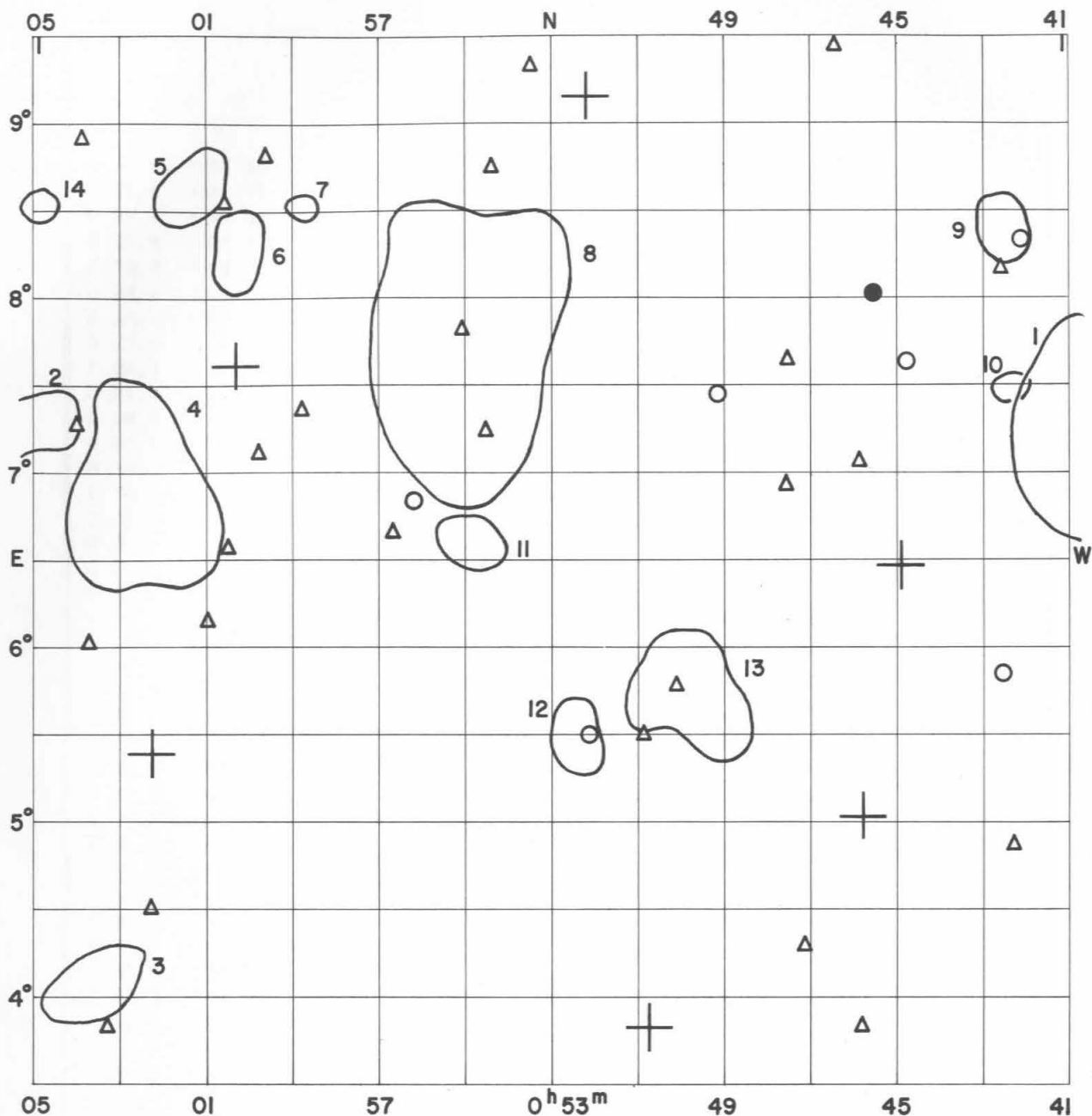
GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
0	17.5	+06 12		14.8		double system
0	17.8	+07 25	13*	15.0		
0	18.3	+06 32		15.7		
0	18.5	+06 10		15.7		compact
0	19.6	+06 59		15.6		
0	19.8	+06 10		15.7		
0	20.3	+06 33		15.3		1549*
0	20.3	+06 42		14.9		
0	20.7	+06 17		15.7		
0	22.4	+06 23		15.4		double system
0	22.7	+06 13		14.9		
0	22.9	+06 26		15.7		
0	23.2	+08 22		15.7		1551*
0	23.3	+05 08		15.7		
0	23.9	+06 01		15.3		
0	25.0	+08 36		15.0		
0	25.7	+06 51		15.7		

spiral arms extremely faint

Position			NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ				
h	m	o				
0	25.9	+04 44		15.3		
0	27.0	+04 51		15.7		
0	27.8	+06 41		15.5		double system
0	27.9	+05 36		15.2		
0	28.4	+04 49	139	15.5		
0	28.4	+04 54	138	14.8		
0	28.4	+05 21		15.6		
0	28.6	+04 14		15.6		
0	28.7	+08 12		15.0		
0	28.8	+04 55	141	15.4		
0	28.8	+08 11		14.6		
0	28.9	+05 56		14.3		
0	28.9	+08 07		15.4		
0	30.4	+04 59		15.7		
0	30.4	+05 00		15.7		
0	30.6	+07 38		15.7		
0	30.8	+07 35		15.6		
0	31.2	+06 58		15.2		
0	31.4	+06 59		14.2		double system
0	31.7	+05 16		15.1		
0	31.7	+05 40		15.7		
0	31.9	+08 10		15.7		
0	32.2	+07 10		15.6		compact
0	32.3	+05 22		15.7		compact
0	32.8	+04 36		15.7		
0	32.9	+09 27		15.7		
0	33.0	+08 51	34*	13.9		
0	33.1	+08 43		15.6		
0	33.4	+08 27		15.0		
0	33.6	+04 22		15.5		
0	35.2	+05 56		15.5		double system
0	35.3	+04 37		15.4		
0	35.4	+08 22	180	14.3		
0	36.3	+06 46	190	14.4		quadruple system
0	36.4	+06 32		15.4		
0	36.5	+05 45	1564*	14.8		
0	36.5	+07 12		15.7		compact
0	36.7	+03 41		14.8		
0	36.8	+04 17		15.6		
0	36.8	+06 27	1565*	14.9		compact
0	36.9	+06 32	1566*	15.4		
0	37.0	+08 41		15.2		
0	37.1	+08 43		15.0		
0	37.3	+06 34	1568*	15.6		double system
0	37.9	+06 38		15.6		
0	39.2	+08 06		15.6		compact
0	39.3	+08 05		15.6		double system





FIELD No. 410

$0^h53^m + 6^\circ30'$

Survey Plate No. 877

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
941	0	44	48.3	+	6	28 06	6.20
959	0	45	45.4	+	5	01 26	5.82
1062	0	50	44.8	+	3	48 56	7.02
1089	0	52	09.0	+	9	09 29	8.2
1258	1	00	20.7	+	7	37 17	4.45
1301	1	02	17.0	+	5	23 20	6.17

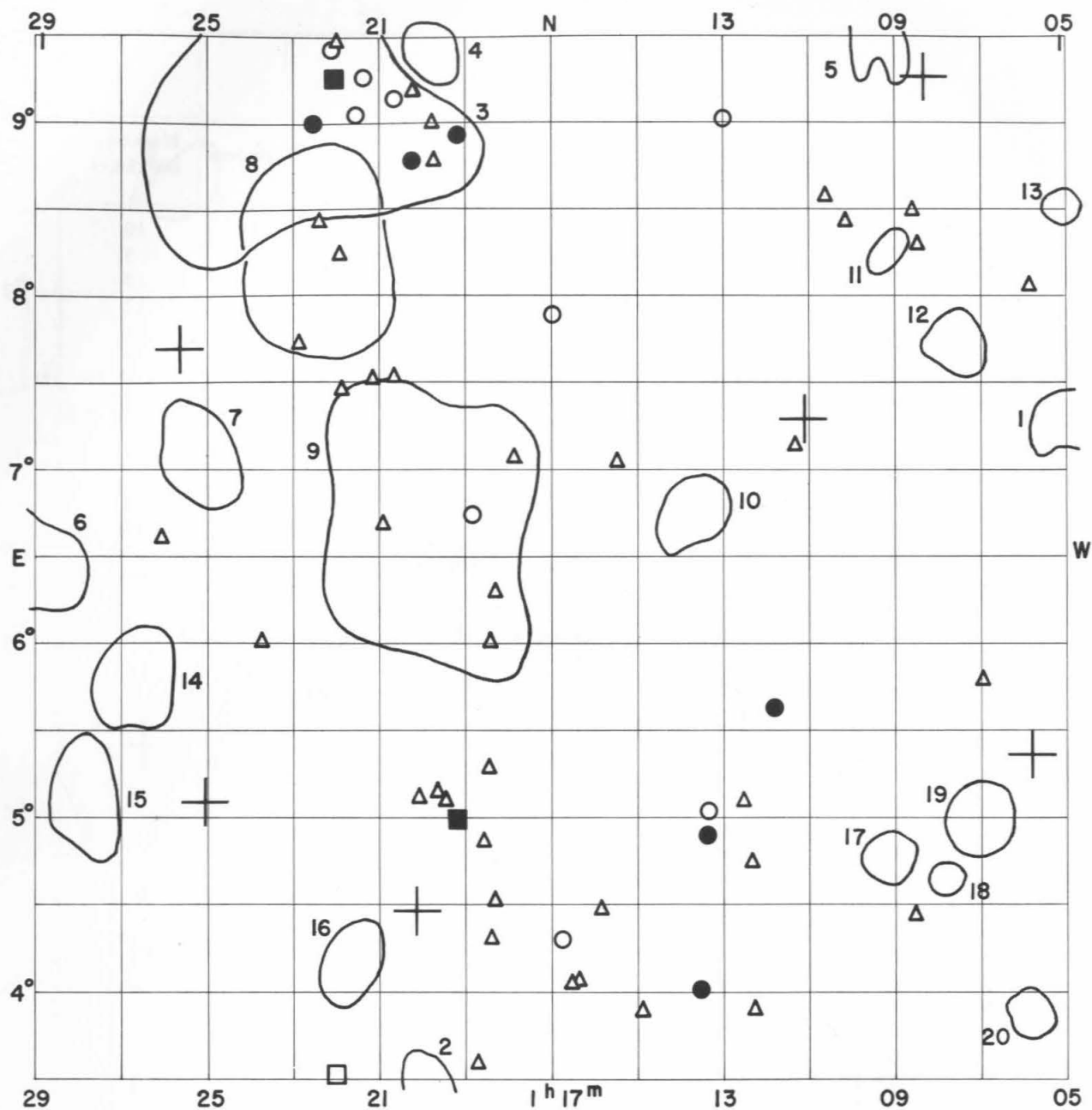
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0040.6 + 0715	open	93	5.4	VD	1
0042.3 + 0729	compact	55	1.0	ED	10
0042.5 + 0824	compact	83	1.9	ED	9
0049.8 + 0544	open	99	3.7	ED	13
0052.4 + 0530	medium compact	80	1.9	VD	12
0054.8 + 0635	open	72	1.8	ED	11
0055.0 + 0745	open	124	7.5	MD	8
0058.8 + 0831	compact	45	0.9	ED	7
0100.3 + 0815	medium compact	82	2.1	ED	6
0101.4 + 0838	open	75	2.2	ED	5
0102.6 + 0648	open	109	5.4	MD	4
0103.6 + 0403	open	72	2.6	VD	3
0104.9 + 0715	medium compact	78	2.1	VD	2
0105.0 + 0830	medium compact	55	1.1	ED	14

Average number of galaxies per cluster = 80.1

GALAXIES

Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
0	42.0	+ 08 22		15.0		compact
0	42.2	+ 04 53		15.2		very compact
0	42.5	+ 05 52	240	14.8		
0	42.5	+ 08 12		15.6		
0	44.7	+ 07 39	250	14.9		
0	45.5	+ 08 03	257	13.7		
0	45.8	+ 03 50	52*	15.4		
0	45.8	+ 07 04		15.7		
0	46.3	+ 09 27		15.5		
0	47.2	+ 04 18		15.7		
0	47.5	+ 06 55		15.4		
0	47.5	+ 07 39		15.1		
0	49.1	+ 07 28	55*	15.0		
0	50.1	+ 05 47		15.7		diffuse
0	50.9	+ 05 30	1592*	15.4		
0	52.1	+ 05 30	1598*	15.0		
0	53.5	+ 09 21		15.5		
0	54.4	+ 08 46		15.2		
0	54.5	+ 07 15	61*	15.3		compact
0	55.1	+ 07 49		15.6		compact
0	56.2	+ 06 50	332	14.9		compact
0	56.7	+ 06 40		15.7		very compact
0	58.8	+ 07 21		15.7		extremely diffuse
0	59.7	+ 08 50		15.7		
0	59.8	+ 07 06		15.6		
1	00.5	+ 06 34		15.5		
1	00.6	+ 08 34		15.6		
1	01.0	+ 06 09		15.7		
1	02.3	+ 04 30	73*	15.4		
1	03.3	+ 03 49	74*	15.5		
1	03.8	+ 06 01		15.4		compact
1	04.0	+ 07 16		15.7		
1	04.0	+ 08 55		15.5		



FIELD No. 411

$1^h 17^m + 6^\circ 30'$

Survey Plate No. 1201

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
1383	1	05	47.5	+	5	23 09	5.67
1429	1	08	16.9	+	9	17 42	7.15
1476	1	11	06.9	+	7	18 41	5.57
1660	1	20	07.9	+	4	28 39	6.96
1766	1	25	03.9	+	5	05 44	7.33
1780	1	25	45.4	+	7	42 10	6.44

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0104.9 + 0715	medium compact	78	2.1	VD	1
0105.0 + 0830	medium compact	55	1.1	ED	13
0105.8 + 0352	open	61	1.4	ED	20
0107.0 + 0459	medium compact	96	2.1	VD	19
0107.5 + 0743	compact	75	1.9	ED	12
0107.8 + 0439	compact	60	1.0	ED	18
0109.1 + 0815	medium compact	55	1.2	ED	11
0109.2 + 0445	medium compact	55	1.6	ED	17
0109.3 + 0927	medium compact	58	2.0	VD	5
0113.7 + 0645	medium compact	107	2.2	VD	10
0119.8 + 0323	open	78	2.1	ED	2
0119.8 + 0639	open	106	7.8	D	9
0119.8 + 0925	medium compact	66	1.8	VD	4
0121.7 + 0409	compact	103	2.1	ED	16
0122.4 + 0813	medium compact	126	5.8	D	8
0123.0 + 0953	open	167	12.5	Near	3
0125.2 + 0702	medium compact	129	2.9	ED	7
0126.8 + 0546	medium compact	69	3.0	VD	14
0127.8 + 0505	open	69	2.8	ED	15
0129.4 + 0625	medium compact	147	3.6	VD	6

Average number of galaxies per cluster = 88.0

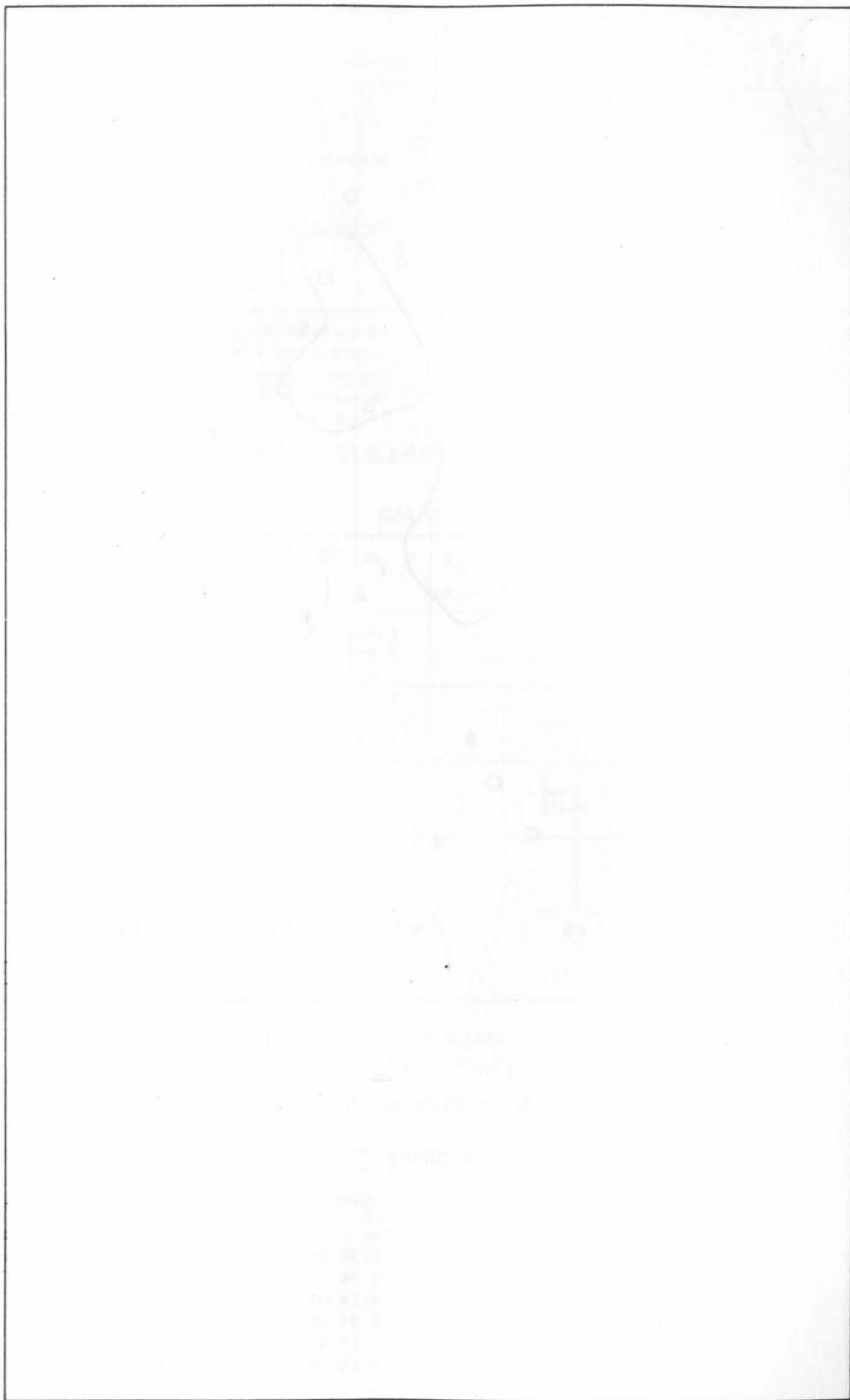
GALAXIES

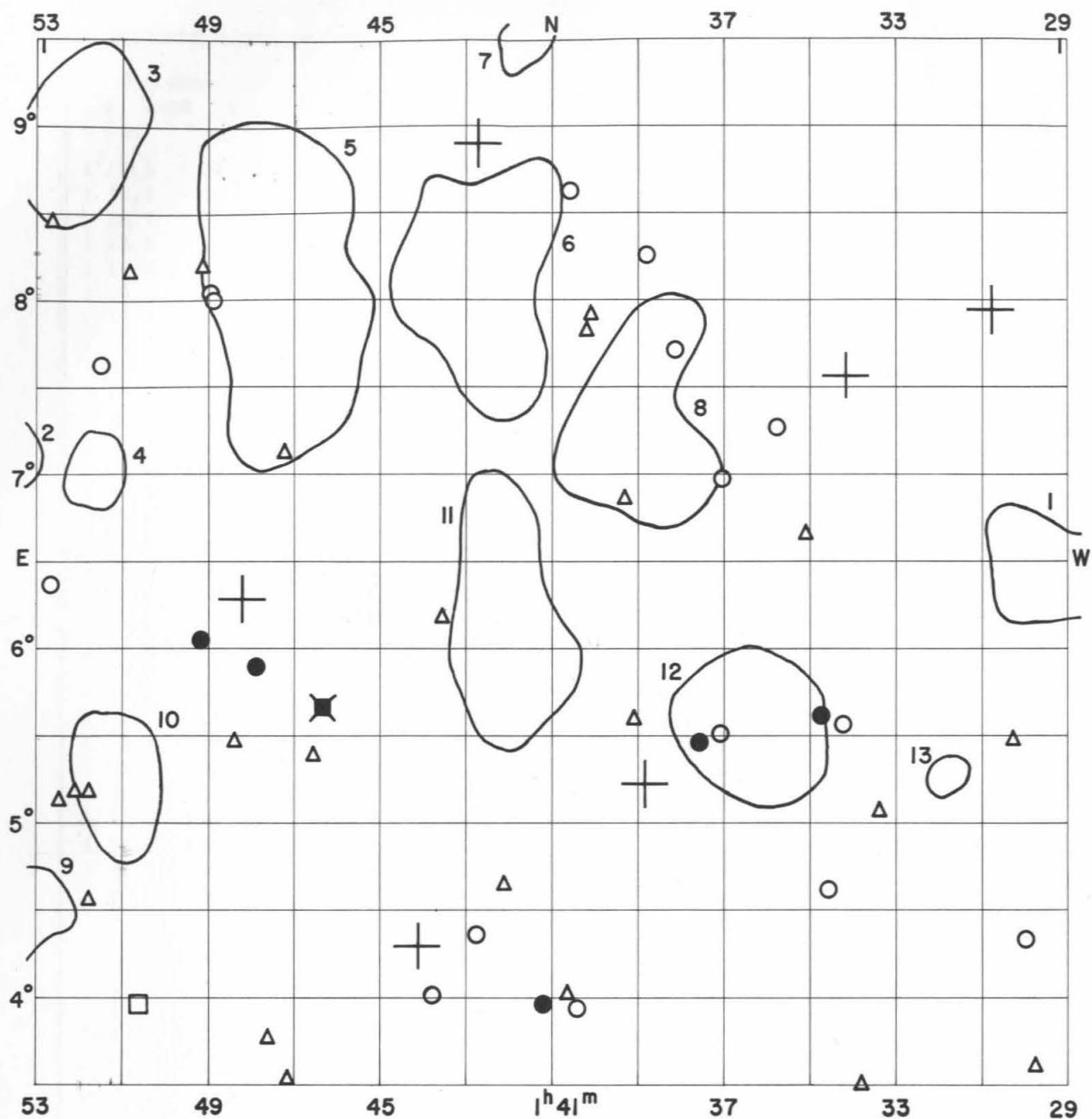
Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
1	05.8	+08 04		15.4		
1	06.9	+05 48		15.6		
1	08.4	+08 18		15.7		
1	08.5	+04 27		15.7		
1	08.5	+08 30		15.5		compact
1	10.2	+08 27		15.7		
1	10.7	+08 36		15.7		
1	11.3	+07 09		15.1		
1	11.8	+05 40	437	14.0		
1	12.3	+03 55	446	15.3		
1	12.3	+04 46		15.7		
1	12.5	+05 06		15.1		
1	13.0	+09 02		15.0		
1	13.3	+05 04		15.0		
1	13.4	+04 55	455	13.9		
1	13.5	+04 02	89*	13.8		
1	14.9	+03 55		15.7		north preceding of two
1	15.5	+07 03		15.7		
1	15.8	+04 29		15.7		very diffuse
1	16.3	+04 05		15.7		
1	16.5	+04 04		15.4		very compact
1	16.7	+04 19		14.9		compact
1	17.0	+07 55		14.9		
1	17.9	+07 05		15.3		
1	18.3	+04 32		15.4		
1	18.3	+06 18		15.7		extremely diffuse
1	18.4	+04 19		15.7		
1	18.4	+05 18	1678*	15.5		compact

Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o				
1	18.5	+04 53		15.7		
1	18.5	+06 01		15.6		double system, bridge
1	18.7	+03 36	479	15.1		
1	18.8	+06 45	485	14.2		
1	19.2	+05 00	488	11.6	+ 2180	$m_H = 11.8$ Sa
1	19.2	+08 56	489	13.4		
1	19.5	+05 06	490	15.6		
1	19.6	+05 09	492	15.5		
1	19.8	+08 47		15.3		
1	19.8	+09 01		15.6		
1	20.1	+05 08	500	15.2		
1	20.2	+08 47	502	13.8		
1	20.3	+09 12	505	15.1		
1	20.7	+07 32		15.2		
1	20.7	+09 10	509	14.7		
1	21.0	+06 42		15.7		
1	21.2	+07 31		15.6		double system, bridge
1	21.4	+09 18	516	14.3		
1	21.6	+09 04	518	14.4		
1	22.0	+07 28		15.5		
1	22.0	+08 15		15.7		
1	22.1	+03 33	520	12.4	+ 2084	$m_H = 12.4$ I
1	22.1	+09 17	524	11.5	+ 2470	$m_H = 12.0$ Ep
1	22.1	+09 30		15.7		diffuse
1	22.2	+09 26	525	14.5		
1	22.5	+08 26	1695*	15.4		compact
1	22.6	+09 00	532	13.5		
1	22.9	+07 44		15.6		irregular double galaxy
1	23.7	+06 01		15.2		
1	26.1	+06 36		15.6		compact

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
488	-	-	11.69	Sb	11.4	Sb	11.10	Sb-
520	-	-	12.16	Irr.	12.2	Irr.	12.35	Ir. II
	-	-	11.85	S0	11.6	S0	-	-





FIELD No. 412

1^h 41^m + 6° 30'

Survey Plate No. 21

GC STARS

Nos.	R. A.			Decl.			m _p
	h	m	s	o	'	"	
1880	1	30	40.8	+	7	57 10	6.59
1952	1	34	06.1	+	7	34 36	6.68
2055	1	38	49.6	+	5	14 07	4.68
2139	1	42	45.0	+	8	54 25	4.50
2160	1	44	05.4	+	4	17 49	9.4
2231	1	48	14.6	+	6	16 59	8.5

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0129.4 + 0625	medium compact	147	3.6	VD	1
0131.8 + 0515	compact	83	1.2	ED	13
0136.3 + 0533	open	85	4.9	ED	12
0138.8 + 0715	medium compact	148	5.7	MD	8
0141.6 + 0930	compact	54	1.8	VD	7
0142.0 + 0607	open	108	5.4	D	11
0142.6 + 0805	open	89	6.2	D	6
0147.3 + 0803	open	113	7.4	MD	5
0151.0 + 0515	medium compact	96	3.5	ED	10
0151.7 + 0700	medium compact	62	2.1	ED	4
0152.0 + 0856	medium compact	95	4.6	D	3
0153.0 + 0430	medium compact	77	2.4	ED	9
0153.8 + 0706	medium compact	90	2.3	ED	2

Average number of galaxies per cluster = 95.9

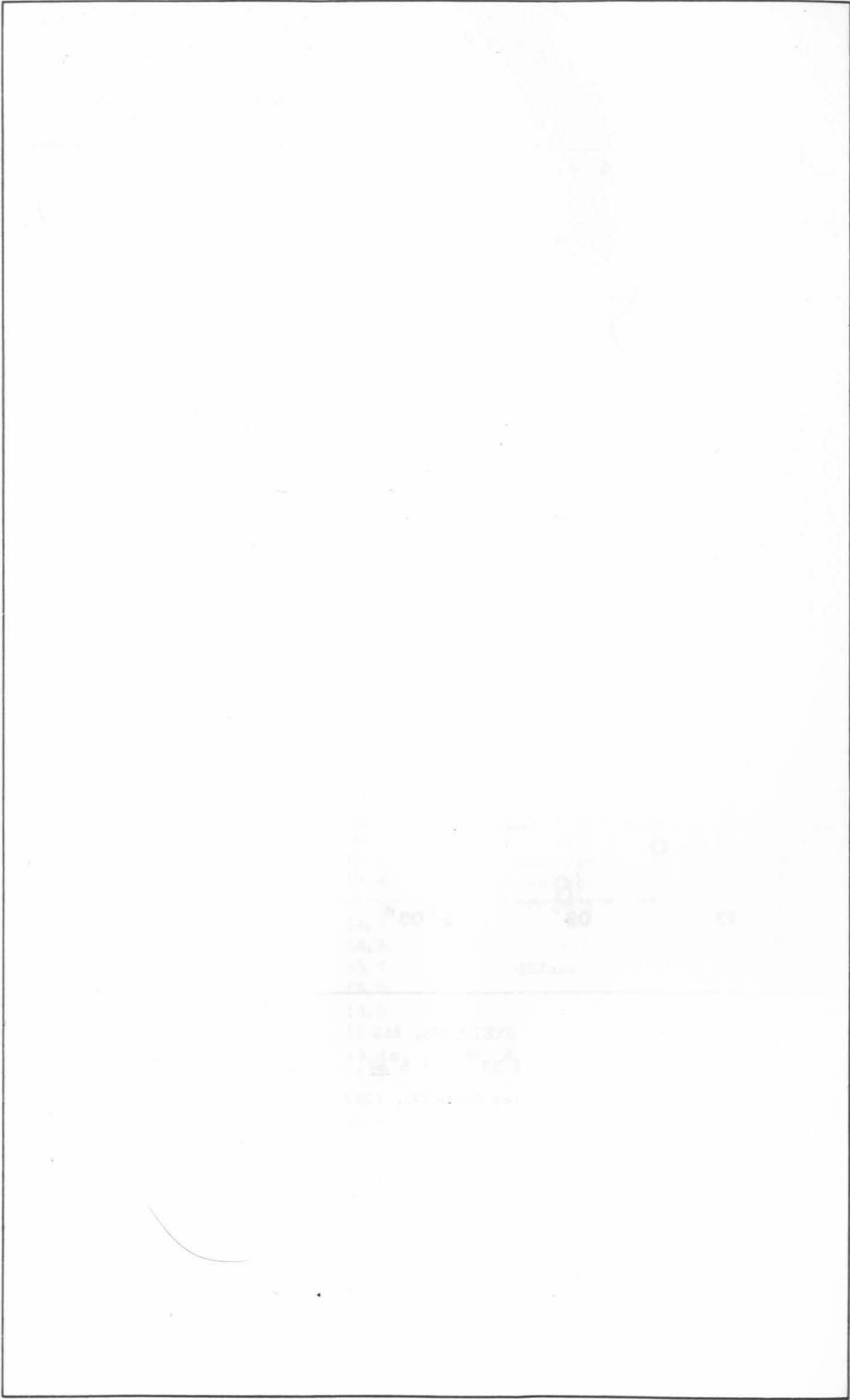
GALAXIES

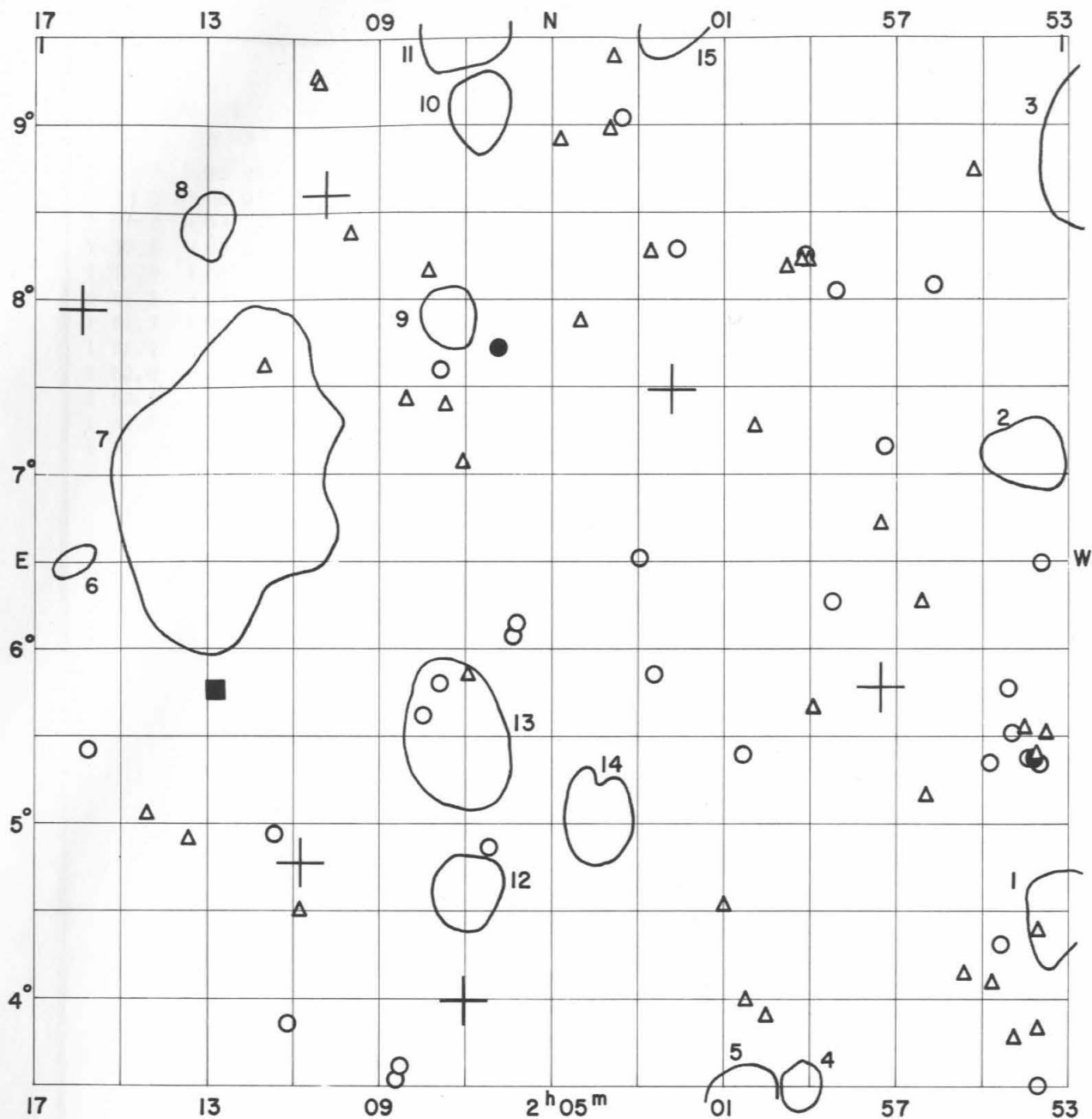
Position α 1950 δ				NGC IC*	m _p	V _s km/sec	Remarks
h	m	o	'				
1	29.8	+03	37		15.3		
1	30.0	+04	20		14.6		double system
1	30.3	+05	29		15.6		
1	33.4	+05	05		15.7		
1	33.8	+03	30		15.3		compact
1	34.2	+05	35	631	15.0		
1	34.6	+04	38		14.5		
1	34.7	+05	37	632	13.5		
1	35.1	+06	40		15.6		diffuse
1	35.8	+07	16		14.8		
1	37.0	+06	58	638	14.4		
1	37.1	+05	32		15.0		
1	37.6	+05	28	645	13.8		
1	38.1	+07	43	652	14.7		
1	38.8	+08	15	1721*	14.3		
1	39.1	+05	36		15.6		
1	39.3	+06	52		15.5		
1	40.1	+07	55		15.6		
1	40.2	+07	50		15.5		
1	40.4	+03	57	150*	14.9		
1	40.6	+04	02		15.5		
1	40.6	+08	38	1723*	14.2		
1	41.2	+03	59	664	13.9		
1	42.1	+04	39		15.5		
1	42.7	+04	22	1726*	14.8		extremely compact
1	43.5	+06	10		15.1		
1	43.7	+04	01		14.9		
1	46.3	+05	40	676	10.5		
1	46.5	+05	23		15.2		extremely compact
1	47.1	+03	32		15.7		compact
1	47.2	+07	07		15.7		
1	47.6	+03	46		15.6		
1	47.9	+05	54	693	13.5		
1	48.4	+05	28		15.6		
1	48.9	+08	00		14.2		

Position			NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ				
h	m	o				
1	49.0	+08 03		15.0		
1	49.2	+06 03	706	13.2		
1	49.2	+08 11		15.7		
1	50.6	+03 57	718	12.5	+1802	$m_H = 12.7$
1	50.9	+08 09		15.5		
1	51.5	+07 37		15.0		
1	51.7	+04 33	1746*	15.1		
1	51.7	+05 10		15.6		
1	52.0	+05 10		15.5		
1	52.5	+05 08		15.5		
1	52.7	+06 21		14.5		
1	52.7	+08 26		15.3		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
718	-	-	12.54	Sa	12.5	Sa	-	-





FIELD No. 413

$2^{\text{h}}05^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 1282

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
2409	1	57	21.0	+	5	47 38	7.11
2505	2	02	12.6	+	7	29 48	6.55
2586	2	07	03.6	+	3	59 47	7.46
2656	2	10	20.8	+	8	36 47	4.54
2669	2	10	52.6	+	4	46 49	6.56
2780	2	16	02.5	+	7	57 03	7.06

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0152.0 + 0856	medium compact	95	4.6	D	3
0153.0 + 0430	medium compact	77	2.4	ED	1
0153.8 + 0706	medium compact	90	2.3	ED	2
0159.2 + 0330	compact	132	1.3	ED	4
0200.6 + 0324	medium compact	93	2.3	VD	5
0202.0 + 0940	medium compact	67	2.3	VD	15
0204.0 + 0502	medium compact	109	2.3	ED	14
0206.7 + 0905	compact	102	2.1	ED	10
0206.9 + 0437	compact	74	2.2	ED	12
0207.0 + 0529	medium compact	107	3.9	VD	13
0207.1 + 0940	open	138	3.6	VD	11
0207.4 + 0754	medium compact	81	1.9	ED	9
0212.7 + 0655	open	101	8.0	D	7
0213.0 + 0825	medium compact	93	1.7	ED	8
0216.1 + 0629	compact	55	1.2	ED	6

Average number of galaxies per cluster = 94.3

GALAXIES

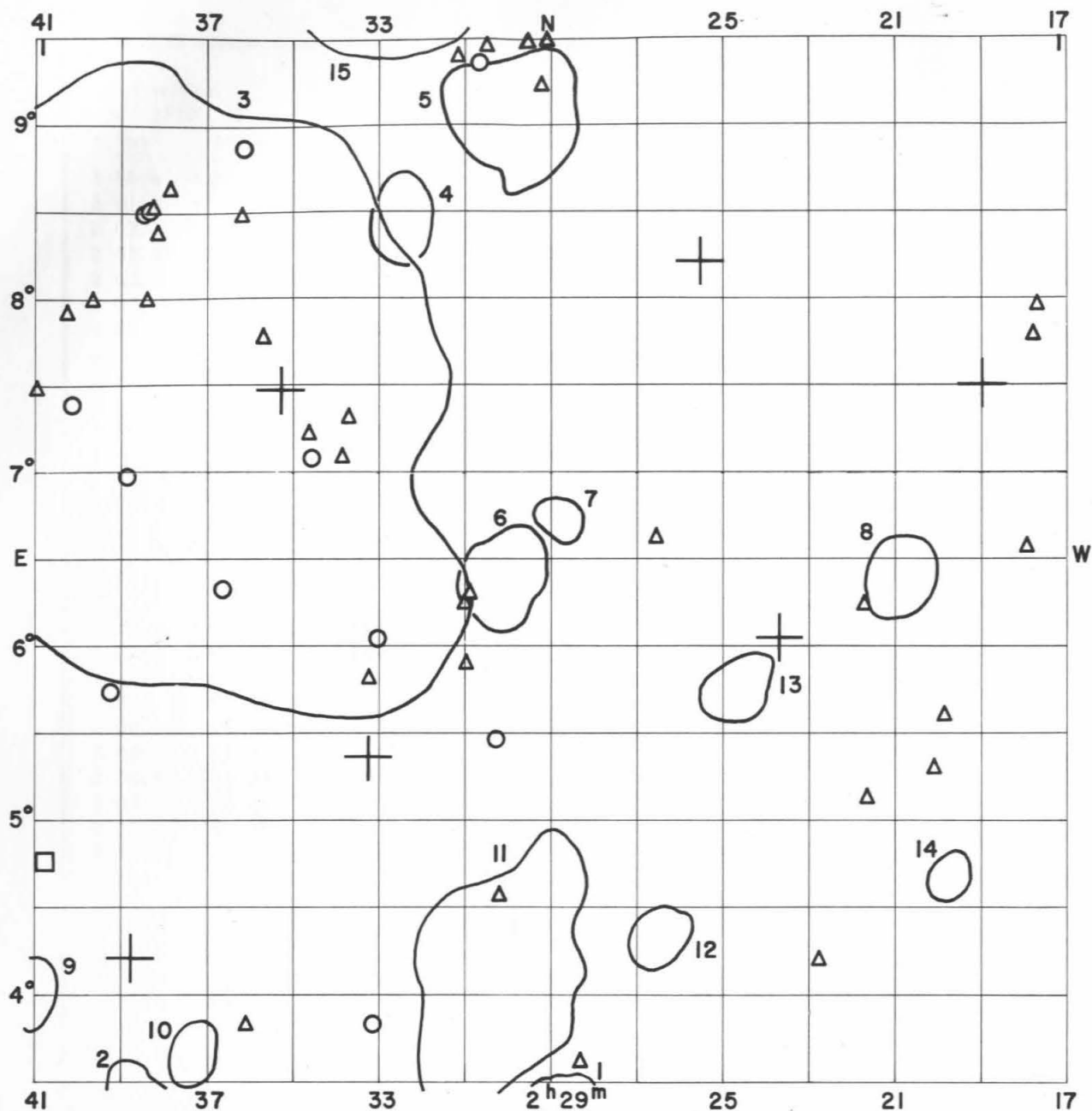
Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
1	53.5	+05 32		15.5		
1	53.6	+05 21		15.0		compact
1	53.6	+06 30	1749*	14.8		
1	53.7	+03 31	174*	14.6		
1	53.7	+04 24		15.5		
1	53.7	+05 25	1751*	15.1		compact
1	53.8	+03 50	1750*	15.4		
1	53.8	+05 23	741	13.2	+ 5559	m _H = 13.0
1	53.9	+05 23		14.8		compact
1	54.1	+05 34		15.4		compact
1	54.3	+03 47		15.4		compact
1	54.3	+05 32		14.6		compact
1	54.4	+05 48		14.7		
1	54.6	+04 19		14.6		
1	54.8	+04 06		15.7		diffuse
1	54.8	+05 22		15.0		
1	55.1	+08 45		15.6		
1	55.4	+04 09		15.6		
1	56.1	+08 06	766	14.4		
1	56.3	+05 10		15.7		
1	56.4	+06 17		15.4		
1	57.2	+07 10	182*	14.6		
1	57.4	+06 43		15.7		very diffuse
1	58.3	+08 04		14.4		
1	58.5	+06 17		14.7		
1	59.0	+05 40		15.7		diffuse
1	59.0	+08 14		15.7		
1	59.1	+08 15	791	14.8		
1	59.2	+08 14		15.7		
1	59.5	+08 12		15.2		
2	00.0	+03 55		15.6		
2	00.3	+07 17		15.4		
2	00.5	+04 00		15.6		

Position a 1950 δ h m o ' ,			NGC IC*	m_p	V_s km/sec	Remarks
2 00.6	+05	25		15.0		
2 01.0	+04	33		15.5		diffuse
2 02.1	+08	18		14.3		
2 02.6	+05	52	1776*	14.4		diffuse
2 02.7	+08	17		15.6		
2 03.0	+06	32		14.6		
2 03.4	+09	03	198*	14.8		
2 03.6	+08	59	199*=1778*	15.4		
2 03.6	+09	24		15.4		
2 04.4	+07	54		15.4		
2 04.8	+08	56	202*	15.3		
2 05.8	+06	10	208*	14.8		diffuse
2 05.9	+06	05	825	14.5		
2 06.2	+07	44	827	14.0		
2 06.4	+04	53		15.0		
2 06.9	+05	52	831	15.2		
2 07.1	+07	05		15.6		
2 07.4	+07	25		15.1		
2 07.6	+05	49	844	15.0		
2 07.6	+07	36	840	14.7		
2 07.8	+08	10		15.7		
2 08.0	+05	38		14.5		
2 08.4	+07	26		15.4		
2 08.5	+03	38	211*	14.5		
2 08.6	+03	33	851	14.7		
2 09.7	+08	23		15.3		
2 10.4	+09	15		15.2		compact
2 10.4	+09	16		15.6		
2 10.8	+04	31		15.5		
2 11.1	+03	53		14.3		extremely compact
2 11.4	+04	57	214*	14.4		peculiar
2 11.7	+07	37		15.7		
2 12.8	+05	46	864	12.0	+1583	$m_H = 12.3$ S
2 13.4	+04	55	1786*	15.5		
2 14.4	+05	04		15.4		
2 15.7	+05	25		14.2		peculiar

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
741	-	-	13.18	E0	13.0	E0	-	-
864	-	-	11.95	Sbc	11.6	Sb	-	-

1.00 10 3
 1.00 10 1
 1.00 10 1
 1.00 10 1
 1.00 10 1



FIELD No. 414

$2^{\text{h}}29^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 1306

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
2837	2	18	53.0	+	7	31 27	7.42
2934	2	23	38.0	+	6	04 07	6.67
2960	2	25	29.8	+	8	14 13	4.34
3117	2	33	14.8	+	5	22 34	5.02
3162	2	35	21.1	+	7	28 48	6.46
3239	2	38	44.6	+	4	12 55	6.88

CLUSTERS OF GALAXIES

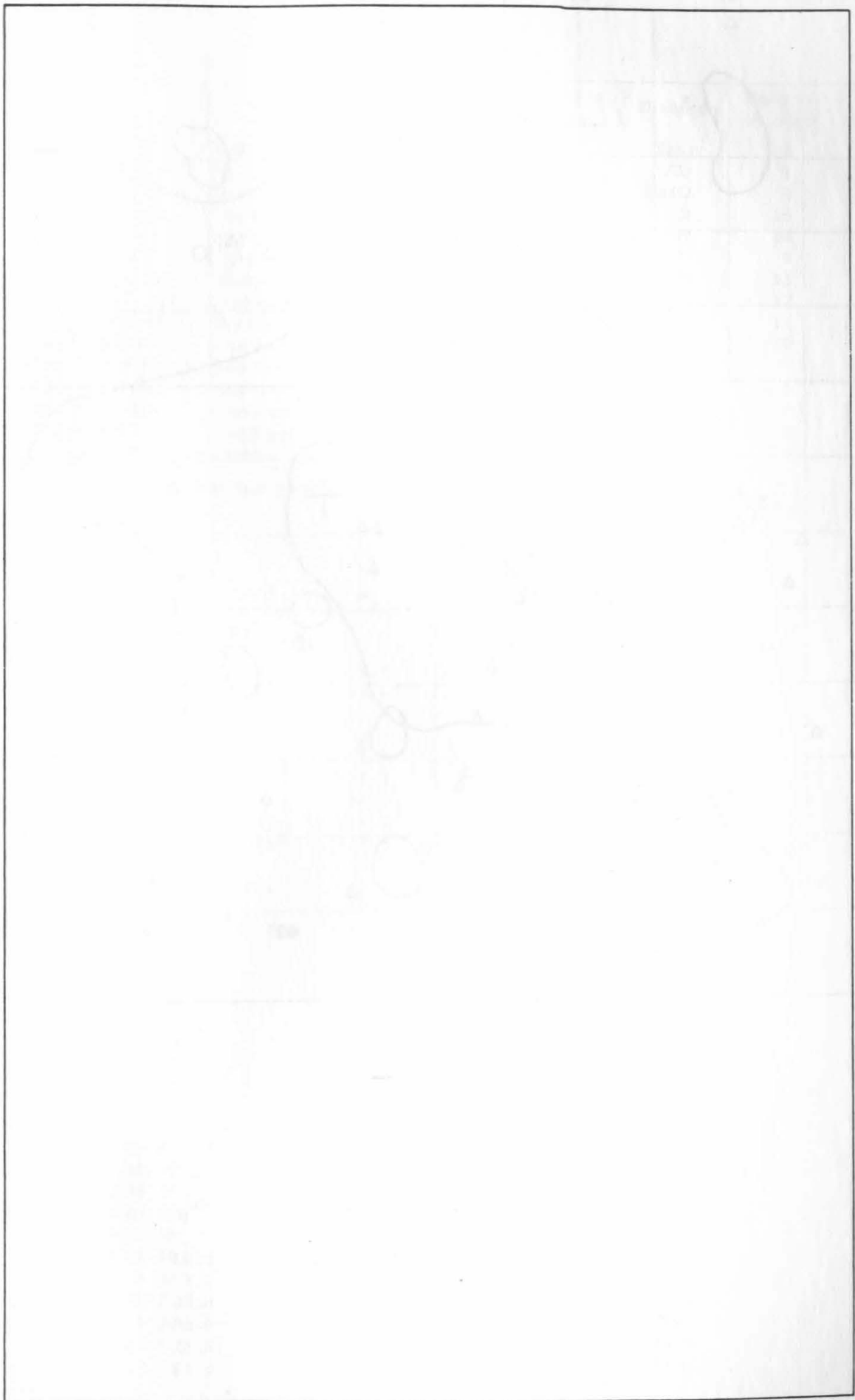
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0219.7 + 0440	compact	55	1.4	ED	14
0220.8 + 0624	medium compact	107	2.4	VD	8
0224.6 + 0546	medium compact	81	2.1	ED	13
0226.4 + 0420	medium compact	99	1.8	ED	12
0228.8 + 0644	medium compact	117	1.5	ED	7
0228.9 + 0319	open	95	2.5	VD	1
0229.8 + 0903	medium compact	101	4.2	VD	5
0230.0 + 0624	medium compact	91	2.9	D	6
0230.2 + 0404	open	123	6.4	D	11
0232.4 + 0828	medium compact	84	2.3	VD	4
0233.2 + 1035	open	142	11.0	MD	15
0237.3 + 0338	medium compact	88	1.6	ED	10
0238.3 + 0321	medium compact	83	2.2	ED	2
0240.6 + 0740	open	290	20.8	Near	3
0241.0 + 0402	compact	68	1.9	ED	9

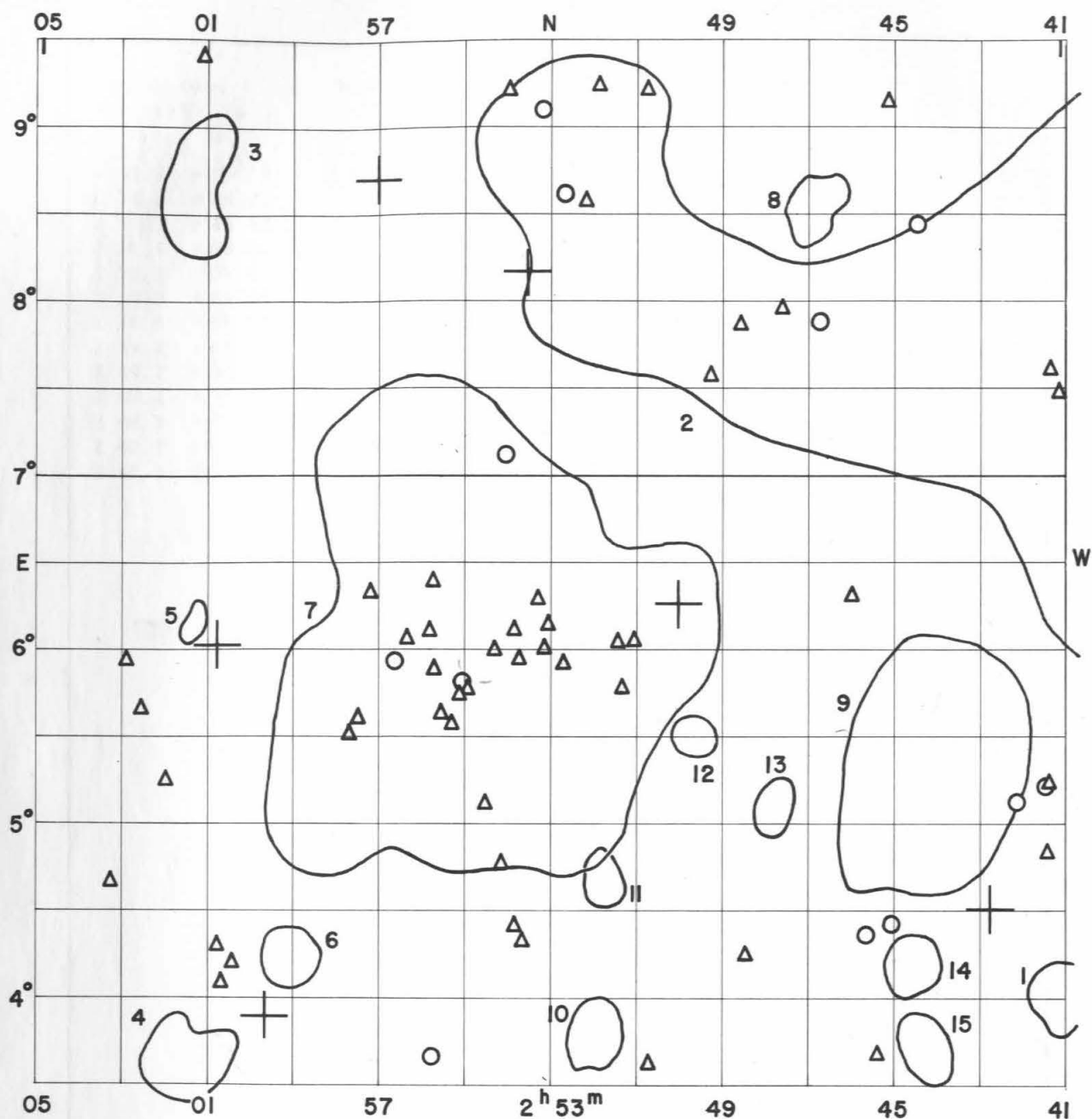
Average number of galaxies per cluster = 108.3

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
2	17.6	+07 58		15.6		
2	17.7	+07 48		15.7		
2	17.9	+06 35		15.1		
2	19.8	+05 37		15.5		
2	20.1	+05 19		15.4		
2	21.6	+05 08		15.2		
2	21.7	+06 15		15.1		
2	22.8	+04 13		15.2		
2	26.5	+06 38		15.6		
2	28.3	+03 38		15.7		
2	29.2	+09 15		15.7		
2	29.2	+09 31		15.4		
2	29.5	+09 30		15.3		
2	30.2	+04 35		15.7		
2	30.2	+05 29		14.9		
2	30.5	+09 28		15.5		
2	30.6	+09 23	975	14.2		
2	30.9	+05 55		15.5		
2	30.9	+06 19		15.2		
2	31.0	+06 15		15.6		
2	31.2	+09 25		15.3		
2	33.0	+06 03		15.0		
2	33.1	+03 50	1819*	15.0		
2	33.2	+05 50	1820*	15.4		
2	33.7	+07 19		15.4		
2	33.8	+07 05		15.6		
2	34.6	+07 05	997	14.6		double system
2	34.6	+07 13	998	15.6		
2	35.7	+07 47		15.4		
2	36.0	+03 50		15.3		
2	36.2	+08 53	1825*	14.9		
2	36.3	+08 29		15.7		
2	36.7	+06 20	1026	14.1		

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
2	37.9	+08	38		15.5		
2	38.2	+08	23		15.1		
2	38.3	+08	32		15.7		
2	38.4	+08	00		15.5		
2	38.4	+08	31	1044	14.8		double system
2	38.5	+08	30	1046	14.9		
2	38.9	+06	58		15.0		very compact
2	39.2	+05	45		14.6		
2	39.7	+08	00		15.4		
2	40.2	+07	23		15.0		
2	40.3	+07	55		15.7		
2	40.7	+04	46	1070	13.0		
2	41.0	+07	29		15.4		





FIELD No. 415

$2^{\text{h}}53^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 1320

GC STARS

Nos.	R. A.			Decl.	m_p
	h	m	s		
3315	2	42	43.4	+ 4 30 08	6.02
3447	2	50	00.6	+ 6 16 15	7.6
3531	2	53	33.1	+ 8 10 54	6.08
3595	2	57	01.9	+ 8 42 33	4.69
3643	2	59	39.8	+ 3 53 41	2.82
3658	3	00	49.3	+ 6 01 57	6.62

CLUSTERS OF GALAXIES

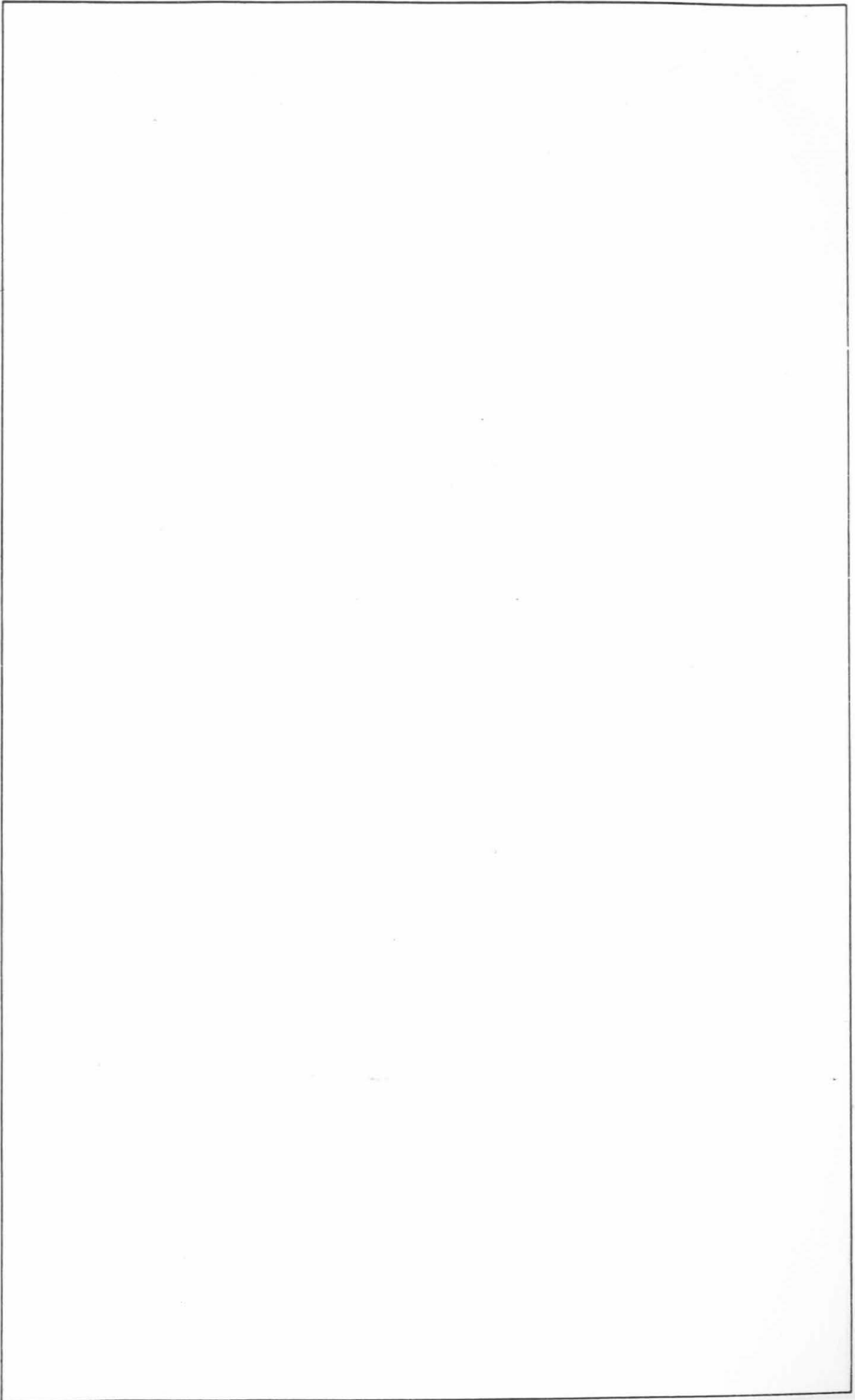
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0240.6 + 0740	open	290	20.8	Near	2
0241.0 + 0402	compact	68	1.9	ED	1
0244.0 + 0519	medium compact	119	7.0	MD	9
0244.2 + 0343	medium compact	83	1.8	VD	15
0244.5 + 0412	compact	65	1.8	ED	14
0246.9 + 0834	medium compact	70	1.9	ED	8
0247.8 + 0506	medium compact	60	1.4	ED	13
0249.6 + 0530	medium compact	55	1.3	ED	12
0251.8 + 0440	medium compact	57	1.5	ED	11
0252.0 + 0346	medium compact	62	1.9	ED	10
0254.7 + 0555	medium compact	194	14.0	Near	7
0259.0 + 0414	medium compact	71	1.9	ED	6
0301.3 + 0838	medium compact	61	3.0	VD	3
0301.4 + 0338	medium compact	88	2.7	ED	4
0301.4 + 0608	medium compact	45	0.9	ED	5

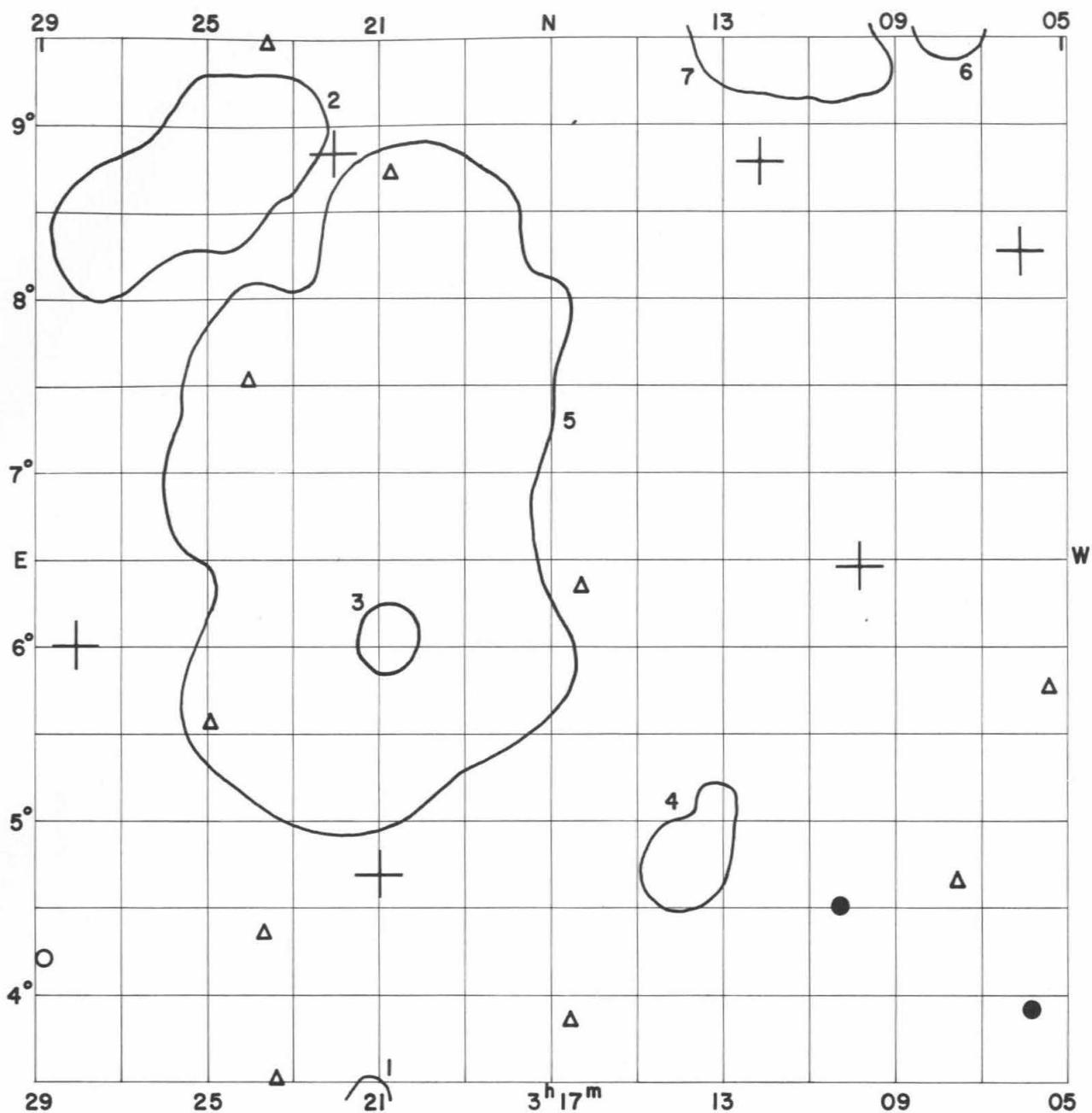
Average number of galaxies per cluster = 92.5

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
2	41.0	+ 07 29		15.4		
2	41.3	+ 07 36		15.6		
2	41.4	+ 04 51		15.4		
2	41.4	+ 05 13		14.9		
2	41.4	+ 05 14		15.7		
2	42.1	+ 05 08		15.0		
2	44.4	+ 08 26		14.3		
2	45.0	+ 04 26	1095	14.2		
2	45.1	+ 09 09	1849*	15.5		
2	45.4	+ 03 41		15.7		extremely diffuse
2	45.7	+ 04 22	1101	14.8		
2	46.0	+ 06 19		15.3		
2	46.7	+ 07 54	1107	14.1		
2	47.6	+ 07 58		15.7		
2	48.5	+ 04 15		15.2		
2	48.5	+ 07 52		15.7		diffuse
2	49.2	+ 07 34		15.7		
2	50.7	+ 09 14		15.4		
2	50.8	+ 03 38		15.5		
2	51.0	+ 06 04		15.3		diffuse
2	51.3	+ 05 47		15.5		
2	51.4	+ 06 03		15.5		
2	51.8	+ 09 15		15.5		
2	52.2	+ 08 35	1863*	15.7		compact
2	52.7	+ 05 55		15.7		
2	52.7	+ 08 37	1865*	15.0		
2	53.1	+ 06 08		15.6		
2	53.2	+ 06 00		15.3		diffuse
2	53.2	+ 09 06	1867*	15.0		
2	53.3	+ 06 17		15.1		
2	53.7	+ 04 20		15.5		
2	53.7	+ 05 57		15.5		
2	53.8	+ 04 25		15.2		

Position			NGS IC*	m_p	V_s km/sec	Remarks
α	1950	δ				
h	m	o				
2	53.8	+06 07		15.7		
2	54.0	+07 08		14.8		
2	54.0	+09 13		15.2		
2	54.1	+04 47		15.7		
2	54.3	+06 00		15.3		
2	54.5	+05 07		15.1		
2	54.9	+05 46		15.1		
2	55.0	+05 50		14.7		double system
2	55.1	+05 45		15.7		
2	55.3	+05 35		15.5		double system
2	55.5	+05 38	1869*	15.6		
2	55.7	+03 40		15.0		
2	55.7	+05 54		15.5		
2	55.7	+06 23		15.4		
2	55.8	+06 06		15.2		
2	56.3	+06 04		15.5		extremely compact
2	56.6	+05 56		15.0		
2	57.2	+06 20		15.5		
2	57.5	+05 36		15.3		
2	57.7	+05 31		15.2		
3	00.4	+04 12		15.3		peculiar
3	00.7	+04 05		15.5		
3	00.7	+04 18		15.3		
3	01.2	+09 25	1873*	15.3		
3	02.0	+05 15		15.7		
3	02.5	+05 40		15.2		
3	02.9	+05 56		15.2		
3	03.2	+04 40		15.3		





FIELD No. 416
 $3^{\text{h}}17^{\text{m}} + 6^{\circ}30'$
 Survey Plate No. 1471

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	o	'	"	
3751	3	05	57.8	+	8	16 46	6.44
3827	3	09	47.0	+	6	28 26	5.84
3874	3	12	04.3	+	8	48 05	7.7
4045	3	21	01.0	+	4	42 19	6.47
4070	3	22	07.1	+	8	51 15	3.80
4183	3	28	05.8	+	6	01 08	6.12

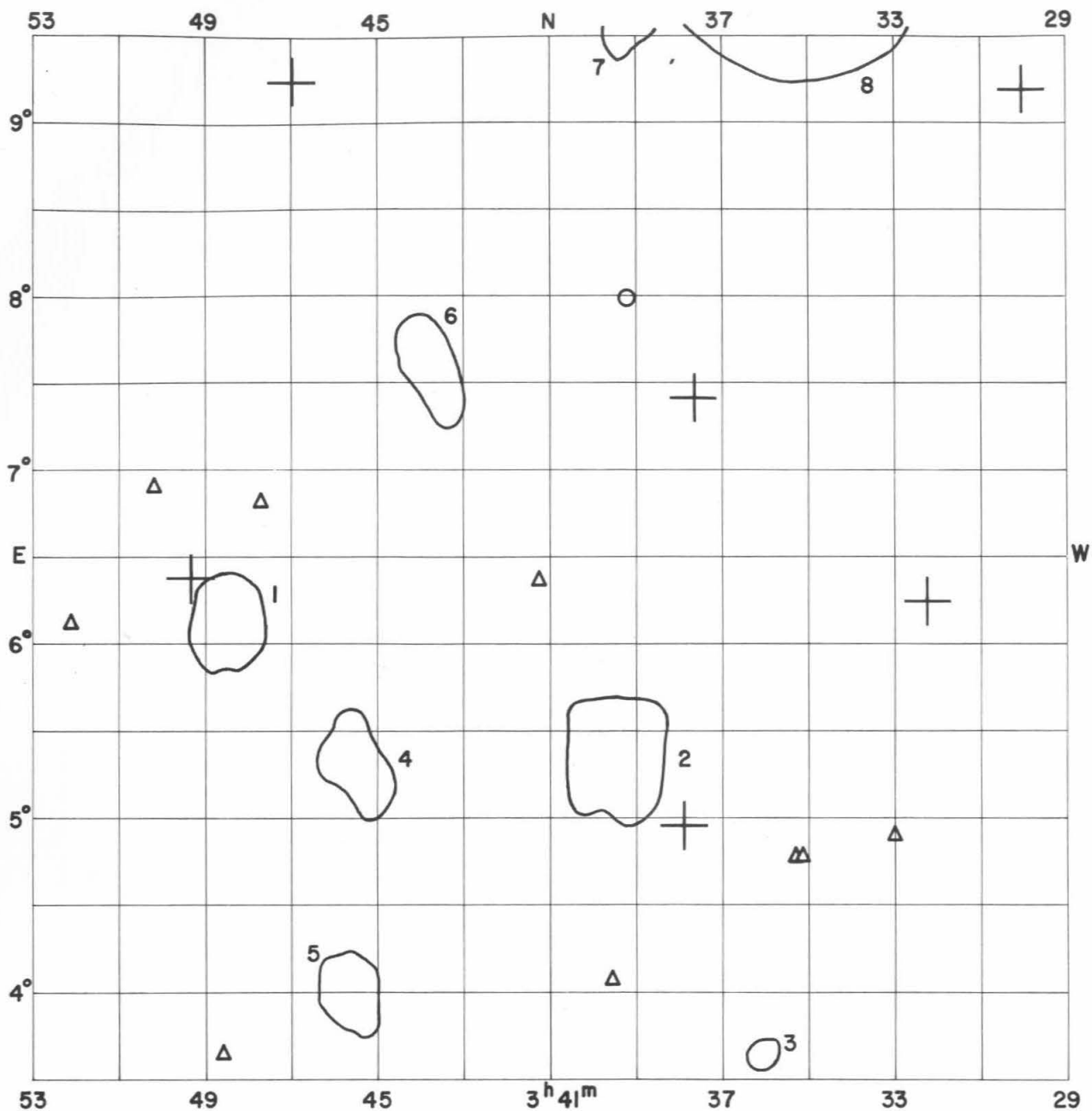
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0307.7 + 0934	medium compact	65	2.2	D	6
0311.8 + 0940	open	83	6.5	MD	7
0313.8 + 0448	medium compact	84	3.3	D	4
0320.8 + 0602	medium compact	71	2.0	VD	3
0321.0 + 0648	open	129	16.1	Near	5
0321.4 + 0317	medium compact	53	2.1	ED	1
0325.6 + 0838	open	151	6.7	MD	2

Average number of galaxies per cluster = 90.9

GALAXIES

Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
3	05.4	+05 46		15.4		
3	05.8	+03 55	1218	14.0		
3	07.5	+04 40		15.5		
3	10.2	+04 31	302*	14.0		
3	16.3	+06 20		15.6		
3	16.5	+03 51	315*	15.1		
3	20.7	+08 43		15.4		
3	23.3	+03 30	322*	15.4		
3	23.6	+04 22	1918*	15.2		
3	23.7	+09 30		15.7		double system
3	24.0	+07 32		15.2		
3	24.9	+05 34		15.3		
3	28.8	+04 12	1349	15.0		



FIELD No. 417

$3^{\text{h}}41^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 1499

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
4231	3	29	53.4	+	9	12 21	5.64
4270	3	32	09.6	+	6	15 07	6.52
4376	3	37	34.9	+	7	25 28	7.4
4385	3	37	49.4	+	4	57 56	6.73
4614	3	47	03.4	+	9	15 25	6.75
4662	3	49	20.1	+	6	23 10	5.62

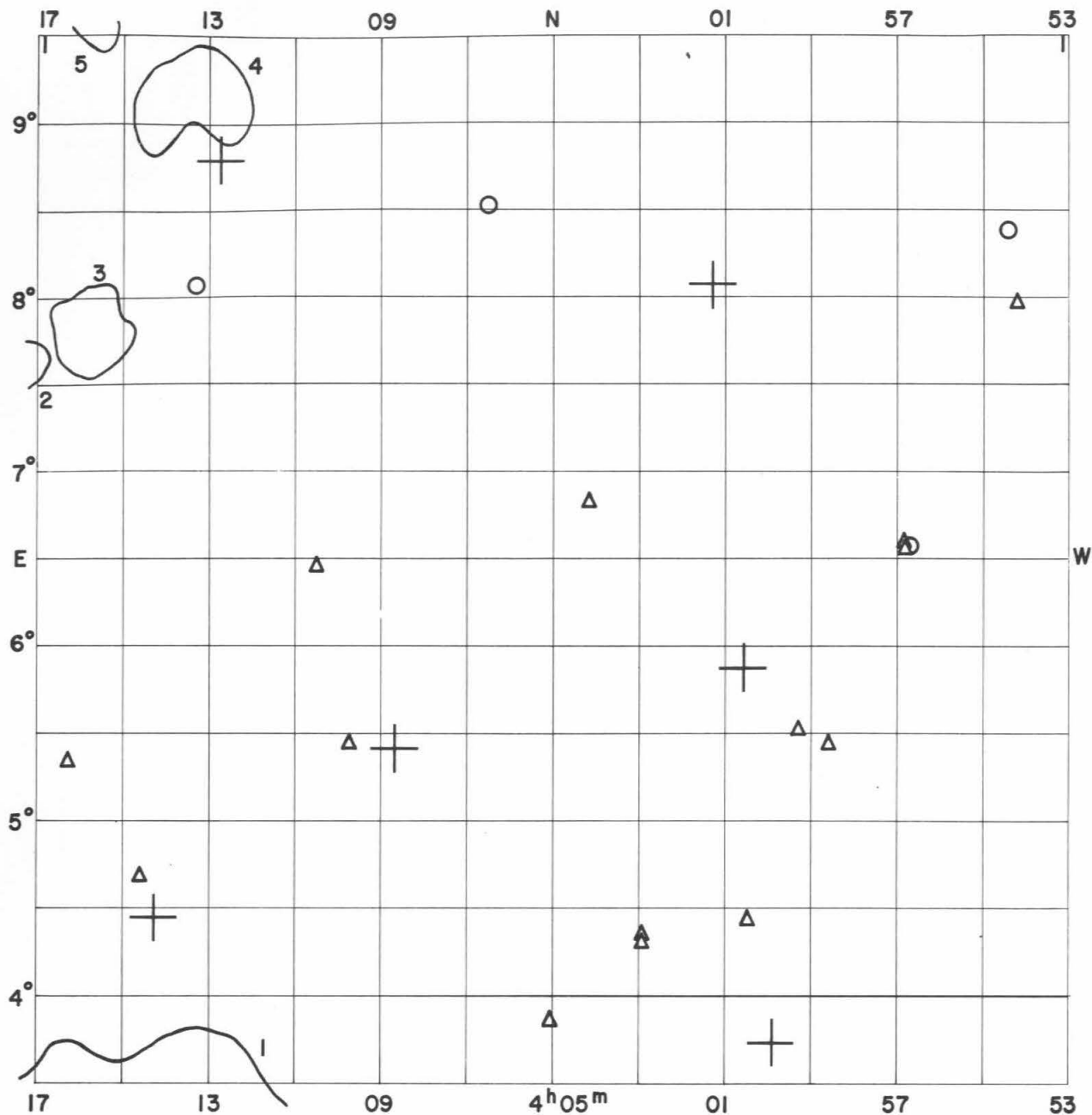
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0335.1 + 0956	medium compact	97	7.8	MD	8
0336.1 + 0338	compact	50	1.0	ED	3
0338.5 + 0946	open	55	3.2	VD	7
0339.5 + 0521	medium compact	100	3.7	D	2
0343.7 + 0736	medium compact	97	2.5	VD	6
0345.4 + 0519	medium compact	88	2.5	ED	4
0345.6 + 0400	medium compact	84	2.2	ED	5
0348.5 + 0607	medium compact	94	2.7	VD	1

Average number of galaxies per cluster = 83.1

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
3	33.0	+04 55	1956*	15.6		
3	35.1	+04 48		15.7		
3	35.3	+04 47		15.6		
3	39.2	+08 00		15.0		
3	39.5	+04 05		15.1		
3	41.2	+06 22	1462	15.2		
3	47.7	+06 49		15.3		
3	48.5	+03 39		15.4		
3	50.2	+06 54		15.6		
3	52.1	+06 07		15.5		



FIELD No. 418

$4^{\text{h}}05^{\text{m}} + 6^{\circ}30'$

Survey Plate No. 1308

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
4846	3	59	51.6	+	3	42 34	6.91
4862	4	00	29.6	+	5	51 07	3.94
4883	4	01	14.0	+	8	03 37	5.48
5042	4	08	40.4	+	5	23 40	5.71
5134	4	12	49.0	+	8	46 07	4.32
5170	4	14	16.0	+	4	25 12	8.6

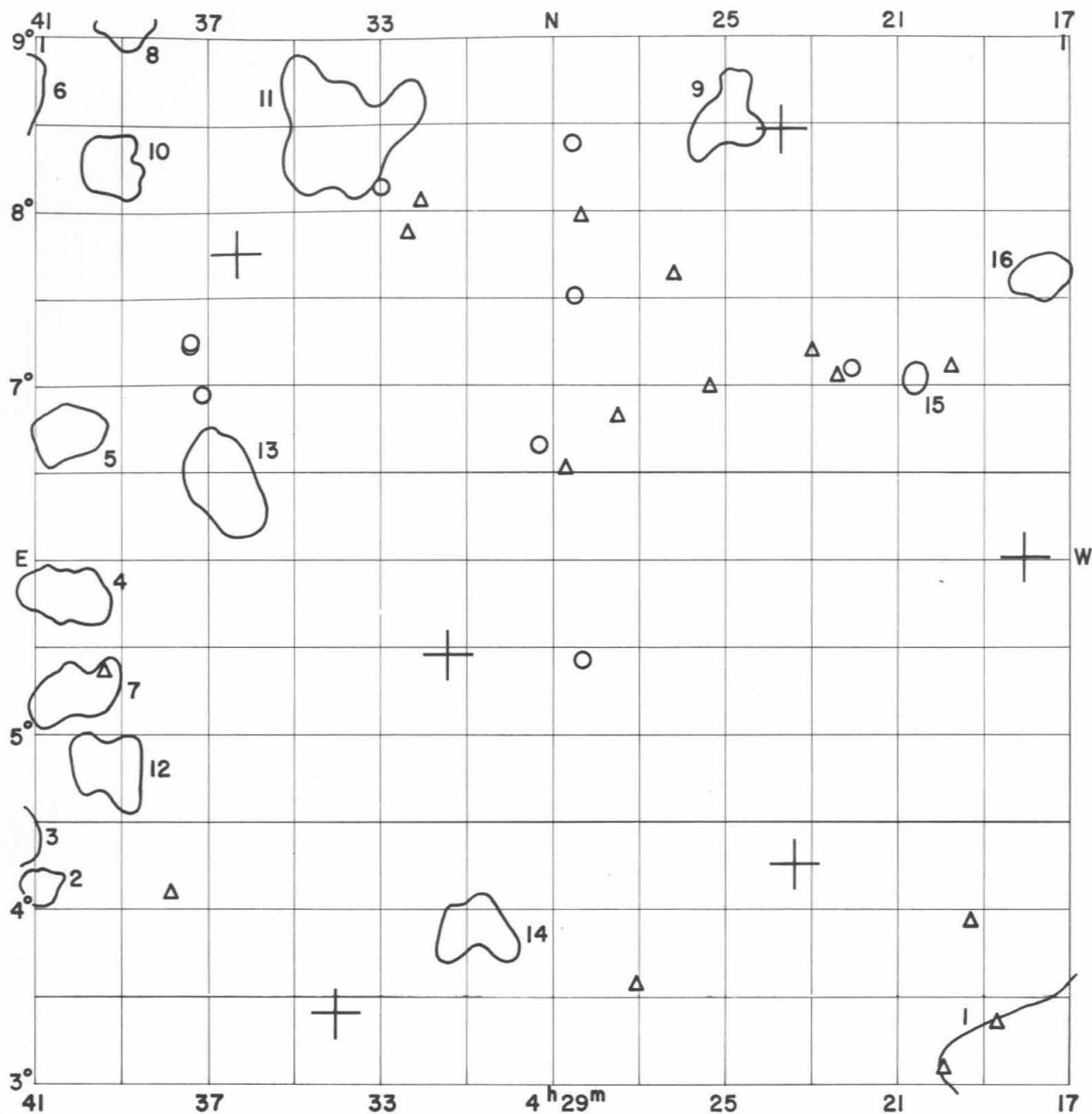
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0413.5 + 0907	open	79	3.3	VD	4
0414.5 + 0216	open	225	13.9	Near	1
0415.8 + 0747	open	69	2.5	VD	3
0415.8 + 0944	medium compact	95	2.5	VD	5
0417.6 + 0736	medium compact	64	1.8	ED	2

Average number of galaxies per cluster = 106.4

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
3	54.1	+07 57		15.5		
3	54.3	+08 22		14.9		
3	56.7	+06 33		14.8		
3	56.8	+06 32		15.4		
3	56.8	+06 33		15.6		
3	58.6	+05 25		15.5		
3	59.3	+05 30	2019*	15.3		double system
4	00.4	+04 25		15.7		diffuse
4	02.9	+04 17		15.4		
4	02.9	+04 19		15.4		diffuse
4	04.2	+06 49		15.4		
4	05.1	+03 51		15.3		diffuse
4	06.5	+08 31	1517	14.3		
4	09.7	+05 26		15.5		
4	10.5	+06 26		15.7		diffuse
4	13.3	+08 04		15.0		
4	14.6	+04 40	1542	15.1		
4	16.3	+05 20		15.4		diffuse



FIELD No. 419

$4^{\text{h}}29^{\text{m}} + 6^{\circ}00'$

Survey Plate No. 887

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
5259	4	18	01.1	+	6	00 47	5.90
5373	4	23	22.9	+	4	15 40	6.53
5378	4	23	38.2	+	8	28 41	5.99
5570	4	31	28.6	+	5	27 55	5.78
5620	4	34	05.2	+	3	25 02	8.4
5665	4	36	23.5	+	7	46 24	5.55

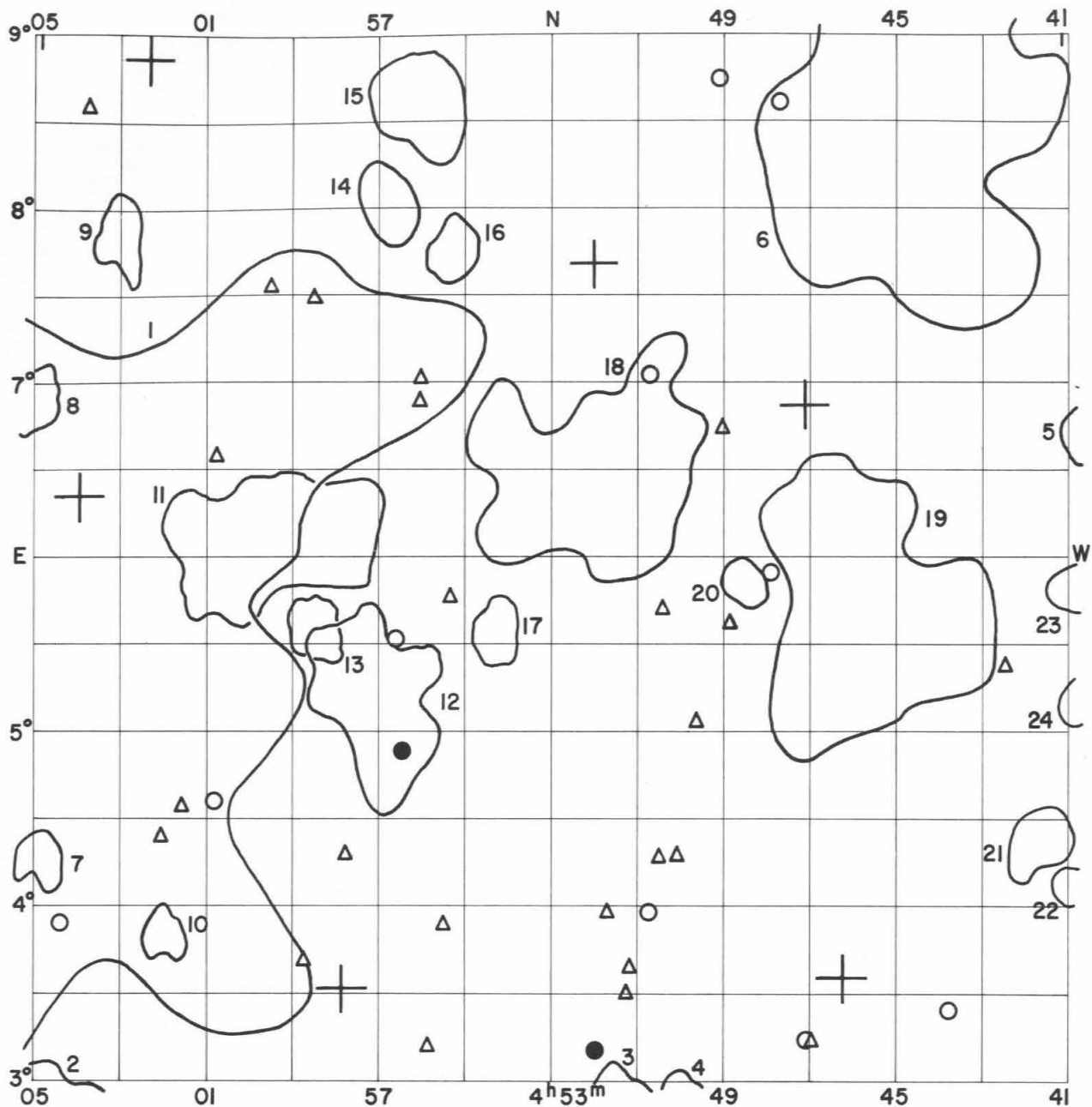
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0414.5 + 0216	open	225	13.9	Near	1
0417.6 + 0736	medium compact	64	1.8	ED	16
0420.5 + 0701	compact	44	0.9	VD	15
0424.9 + 0832	medium compact	92	2.0	VD	9
0430.8 + 0354	compact	96	2.0	VD	14
0433.9 + 0827	medium compact	99	4.0	MD	11
0436.6 + 0626	medium compact	109	2.7	ED	13
0439.0 + 0906	medium compact	67	1.9	D	8
0439.3 + 0448	medium compact	77	2.1	VD	12
0439.3 + 0816	medium compact	88	2.0	VD	10
0440.1 + 0514	medium compact	103	2.2	ED	7
0440.3 + 0547	medium compact	84	2.2	VD	4
0440.3 + 0644	compact	79	1.9	VD	5
0440.9 + 0407	medium compact	48	1.2	ED	2
0441.7 + 0423	compact	65	2.0	ED	3
0444.7 + 0828	open	231	10.3	Near	6

Average number of galaxies per cluster = 98.2

GALAXIES

Position α 1950 δ	NGC IC*	m _p	V _s km/sec	Remarks
h m o '				
4 18.7 + 03 21		15.6		diffuse
4 19.3 + 03 56	2057*	15.2		
4 19.7 + 07 06		15.2		
4 20.0 + 03 06		15.4		
4 22.0 + 07 06		14.8		
4 22.4 + 07 04		15.5		
4 23.0 + 07 12		15.5		
4 25.3 + 07 00		15.7		
4 26.2 + 07 38		15.2		
4 27.1 + 03 35		15.4		very diffuse
4 27.5 + 06 50		15.5		interacting multiple system
4 28.3 + 05 26		15.0		diffuse
4 28.3 + 07 59		15.3		
4 28.5 + 07 31	1590	14.6		
4 28.5 + 08 24		14.8		
4 28.7 + 06 32		15.6		diffuse
4 29.3 + 06 40		14.9		
4 32.0 + 08 04		15.4		compact
4 32.3 + 07 53		15.6		
4 33.0 + 08 09		14.8		very compact
4 37.2 + 06 57		14.8		
4 37.4 + 07 14	1634	15.0		
4 37.4 + 07 15	1633	14.6		
4 37.8 + 04 06		15.3		
4 39.4 + 05 22		15.4		



FIELD No. 420

$4^{\text{h}}53^{\text{m}} + 6^{\circ}00'$

Survey Plate No. 974

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
5865	4	46	18.5	+	3	36 12	7.07
5875	4	47	07.4	+	6	52 32	3.31
5986	4	52	05.4	+	7	41 59	5.54
6108	4	57	54.8	+	3	32 33	6.95
6209	5	02	29.1	+	8	52 30	7.39
6244	5	04	04.9	+	6	21 22	8.2

CLUSTERS OF GALAXIES

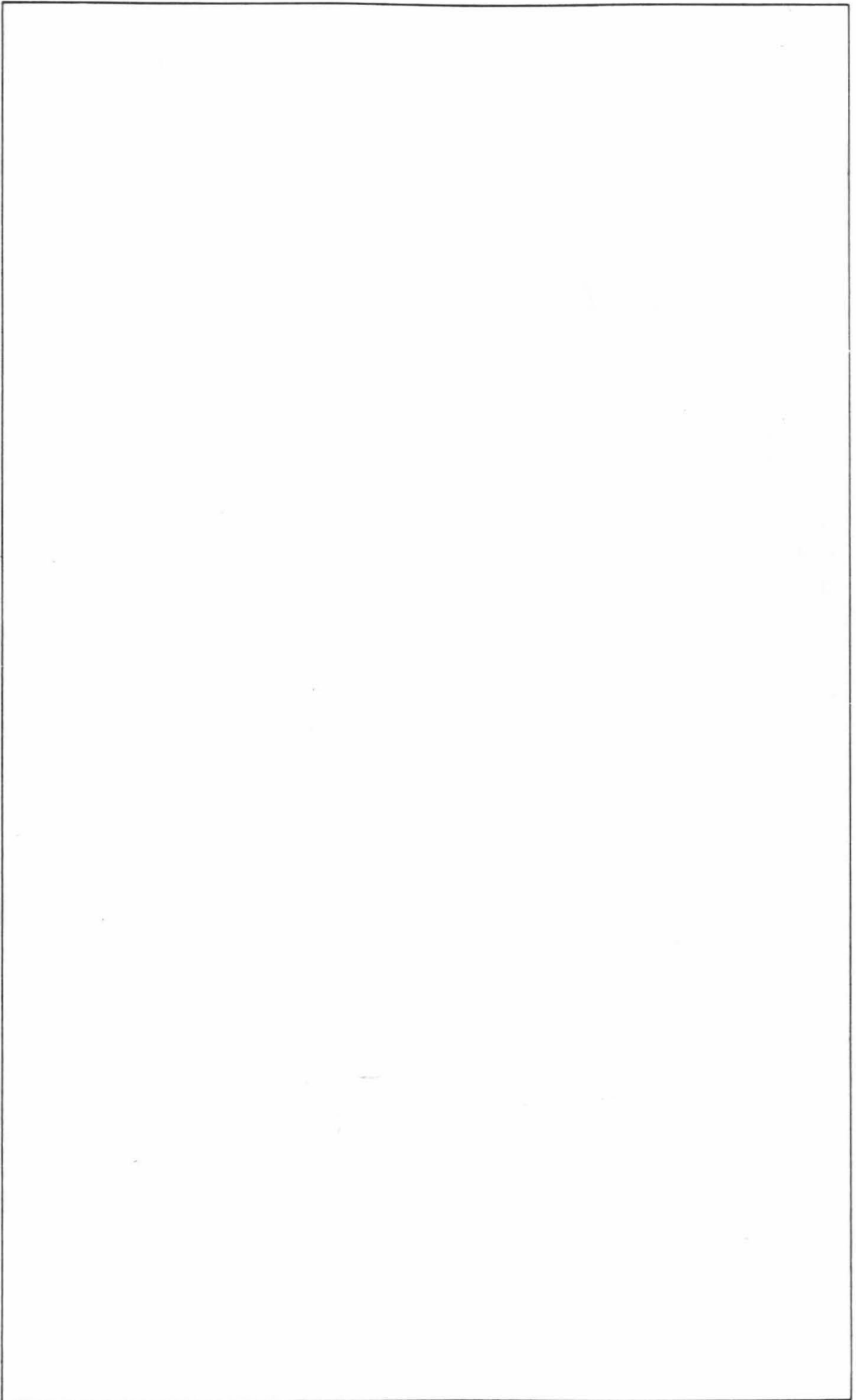
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0440.1 + 0514	medium compact	103	2.2	ED	24
0440.3 + 0547	medium compact	84	2.2	VD	23
0440.3 + 0644	compact	79	1.9	VD	5
0440.9 + 0407	medium compact	48	1.2	ED	22
0441.7 + 0423	compact	65	2.0	ED	21
0444.7 + 0828	open	231	10.3	Near	6
0445.6 + 0539	medium compact	140	7.5	D	19
0448.5 + 0551	compact	58	1.3	ED	20
0451.3 + 0159	open	125	8.4	Near	4
0451.6 + 0251	compact	185	2.2	ED	3
0452.1 + 0627	open	138	6.5	D	18
0454.3 + 0534	compact	51	1.6	ED	17
0455.2 + 0746	medium compact	57	1.7	VD	16
0456.0 + 0837	compact	84	3.1	VD	15
0456.8 + 0801	compact	82	2.1	VD	14
0457.0 + 0511	medium compact	118	4.6	MD	12
0458.5 + 0536	compact	49	1.8	VD	13
0459.6 + 0606	medium compact	126	5.3	MD	11
0502.0 + 0350	compact	64	1.4	ED	10
0503.1 + 0751	medium compact	63	1.8	VD	9
0504.2 + 0251	compact	88	2.7	D	2
0504.9 + 0417	compact	80	1.6	ED	7
0505.1 + 0655	compact	71	1.8	ED	8
0510.0 + 0458	compact	1071	31.7	Near	1

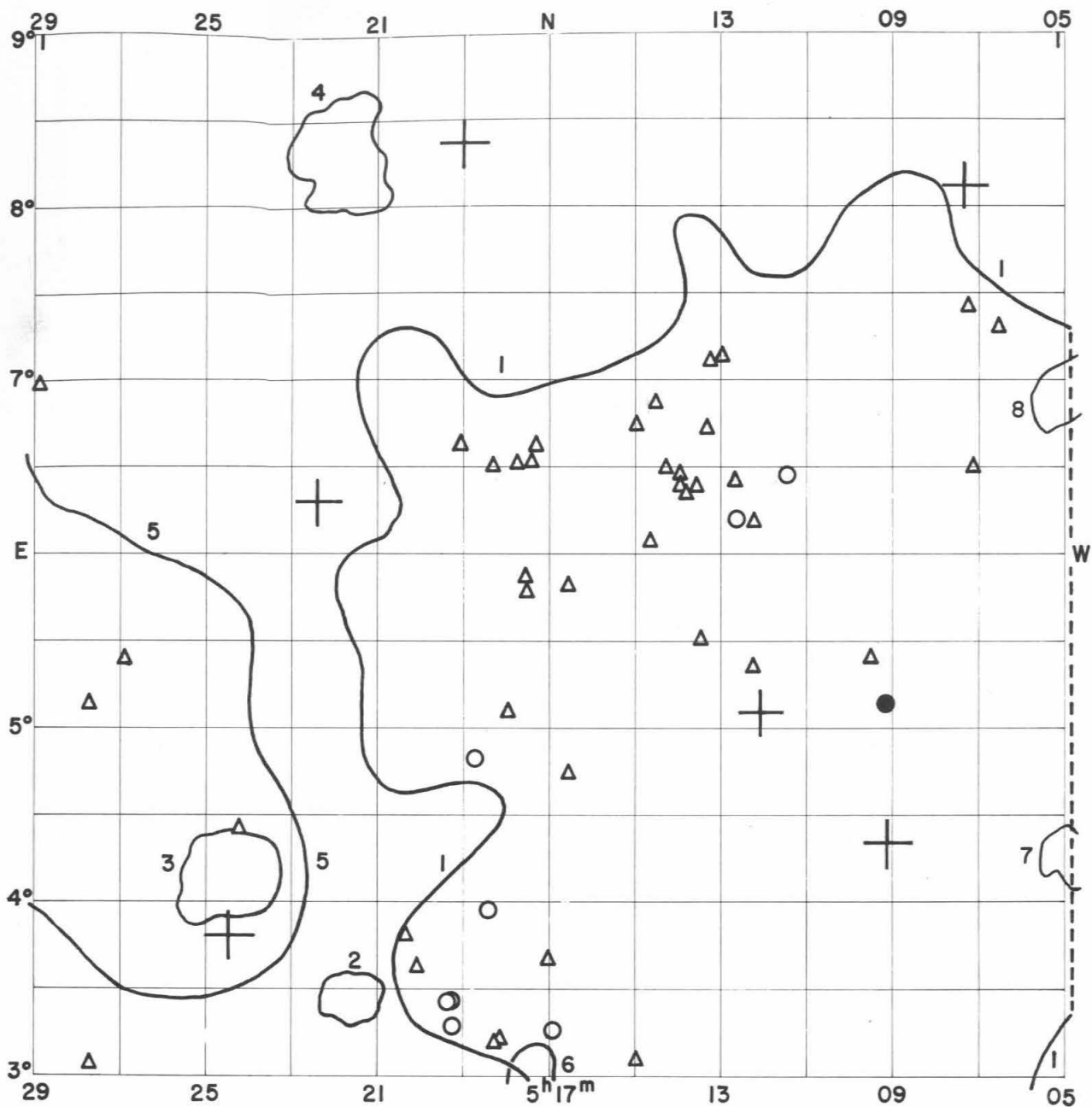
Average number of galaxies per cluster = 135.8

GALAXIES

Position α 1950 δ	NGC IC*	m _p	V _s km/sec	Remarks
h m o				
4 42.5 +05 23		15.5		
4 43.8 +03 25	392*	14.8		
4 47.0 +03 14		15.7		
4 47.2 +03 15		14.8		very compact
4 47.7 +08 37		15.0		
4 48.0 +05 55		14.5		
4 48.9 +05 38		15.4		
4 49.1 +06 45		15.7		extremely diffuse
4 49.1 +08 45		15.0		
4 49.7 +05 04		15.5		
4 50.1 +04 19		15.3		
4 50.4 +05 43		15.7		
4 50.5 +04 18		15.6		very diffuse
4 50.7 +07 03		14.9		
4 50.8 +03 59		15.0		
4 51.2 +03 40		15.2		
4 51.3 +03 30		15.3		diffuse
4 51.7 +03 59		15.2		
4 52.0 +03 11	1691	13.2		
4 55.3 +05 47		15.7		compact
4 55.5 +03 55		15.1		
4 55.9 +03 13		15.5		
4 56.1 +06 54		15.7		very diffuse
4 56.1 +07 02		15.7		very diffuse

Position			NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ				
h	m	o				
4	56.5	+04 54		14.0		
4	56.6	+05 33		14.4		
4	57.9	+04 19	2112*	15.3		
4	58.5	+07 30		15.2		
4	58.8	+03 42		15.5		
4	59.6	+07 33		15.7		extremely diffuse
5	00.8	+06 35		15.6		diffuse
5	00.9	+04 36		15.0		
5	01.7	+04 35		15.7		
5	02.2	+04 25		15.7		
5	03.9	+08 35		15.3		
5	04.5	+03 55		15.0		





FIELD No. 421

$5^{\text{h}}17^{\text{m}} + 6^{\circ}00'$

Survey Plate No. 1270

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
6316	5	07	15.4	+	8	06 46	7.09
6360	5	09	07.1	+	4	20 45	7.5
6407	5	12	04.5	+	5	05 59	5.82
6574	5	19	00.1	+	8	22 51	5.71
6668	5	22	26.9	+	6	18 22	1.70
6720	5	24	30.1	+	3	48 51	6.61

CLUSTERS OF GALAXIES

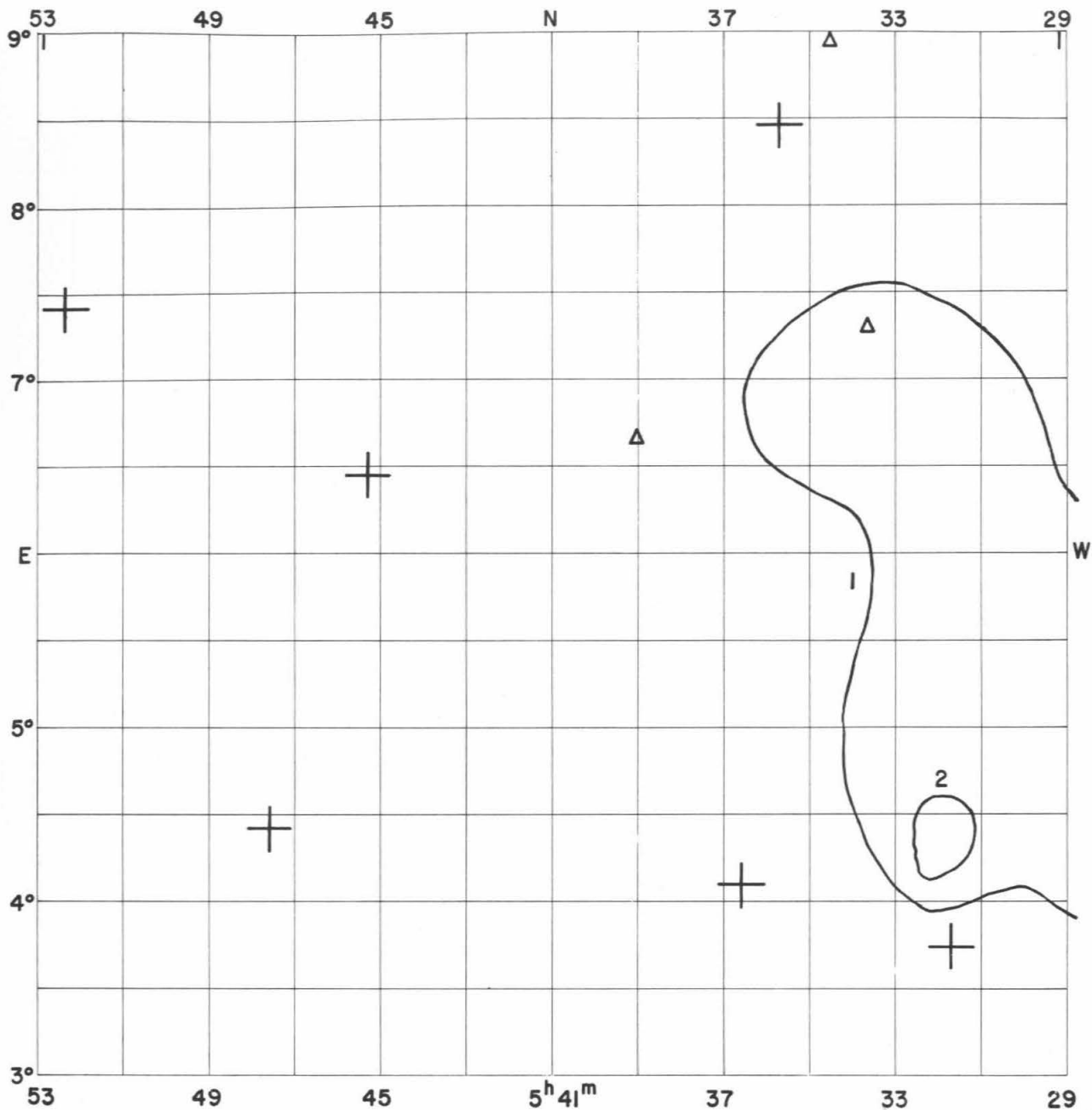
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0504.9 + 0417	compact	80	1.6	ED	7
0505.1 + 0655	compact	71	1.8	ED	8
0510.0 + 0458	compact	1071	31.7	Near	1
0517.3 + 0303	medium compact	66	1.5	D	6
0521.5 + 0328	compact	83	1.8	D	2
0521.9 + 0818	medium compact	83	3.4	MD	4
0524.4 + 0409	compact	108	3.0	D	3
0529.2 + 0516	open	153	17.0	Near	5

Average number of galaxies per cluster = 214.4

GALAXIES

Position α 1950 δ	NGC IC*	m _p	V _s km/sec	Remarks
h m o				
5 06.5 + 07 18		15.2		
5 07.0 + 06 29		15.7		
5 07.2 + 07 25		15.6		
5 09.1 + 05 08	1819	13.7		
5 09.5 + 05 24		15.4		
5 11.5 + 06 27		14.9		
5 12.2 + 05 21		15.5		
5 12.2 + 06 11		15.5		
5 12.6 + 06 12		14.8		
5 12.7 + 06 25		15.5		
5 12.9 + 07 08		15.4		
5 13.2 + 07 06		15.5		
5 13.3 + 06 43		15.7		
5 13.4 + 05 31		15.7		
5 13.6 + 06 23		15.5		
5 13.8 + 06 20		15.6		
5 13.9 + 06 27		15.6		
5 14.0 + 06 23		15.1		double system
5 14.3 + 06 30		15.6		
5 14.5 + 06 52		15.3		
5 14.6 + 06 05		15.7		
5 15.0 + 03 05		15.7		
5 15.0 + 06 45		15.7		diffuse
5 16.6 + 04 45		15.7		
5 16.6 + 05 49		15.7		
5 17.0 + 03 16	409*	15.0		double system
5 17.1 + 03 40		15.6		
5 17.3 + 06 37		15.5		
5 17.4 + 06 31		15.6		
5 17.5 + 05 47		15.7		diffuse
5 17.5 + 05 52		15.2		
5 17.7 + 06 31		15.4		
5 18.0 + 05 05		15.6		
5 18.2 + 03 13		15.2		
5 18.3 + 03 12		15.3		
5 18.3 + 06 30		15.5		
5 18.4 + 03 58		14.5		
5 18.7 + 04 50		14.3		
5 19.1 + 06 38	1875	15.2		
5 19.3 + 03 18	414*	14.9		

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	i				
5	19.3	+ 03	26	412*=2123*	14.8	} interacting double system	
5	19.4	+ 03	26	413*=2124*	14.9		
5	20.1	+ 03	39		15.3		
5	20.3	+ 03	49		15.6		
5	24.3	+ 04	25		15.7		
5	26.9	+ 05	24		15.7		
5	27.7	+ 03	05		15.7		
5	27.8	+ 05	08		15.7		
5	28.9	+ 06	58		15.7		



FIELD No. 422

$5^{\text{h}}41^{\text{m}} + 6^{\circ}00'$

Survey Plate No. 1493

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
6896	5	31	38.8	+	3	44 03	5.32
7007	5	35	38.0	+	8	27 34	7.04
7042	5	36	32.6	+	4	05 41	4.54
7262	5	45	19.0	+	6	26 17	5.27
7320	5	47	34.2	+	4	24 37	6.12
7451	5	52	27.8	+	7	23 58	0.92

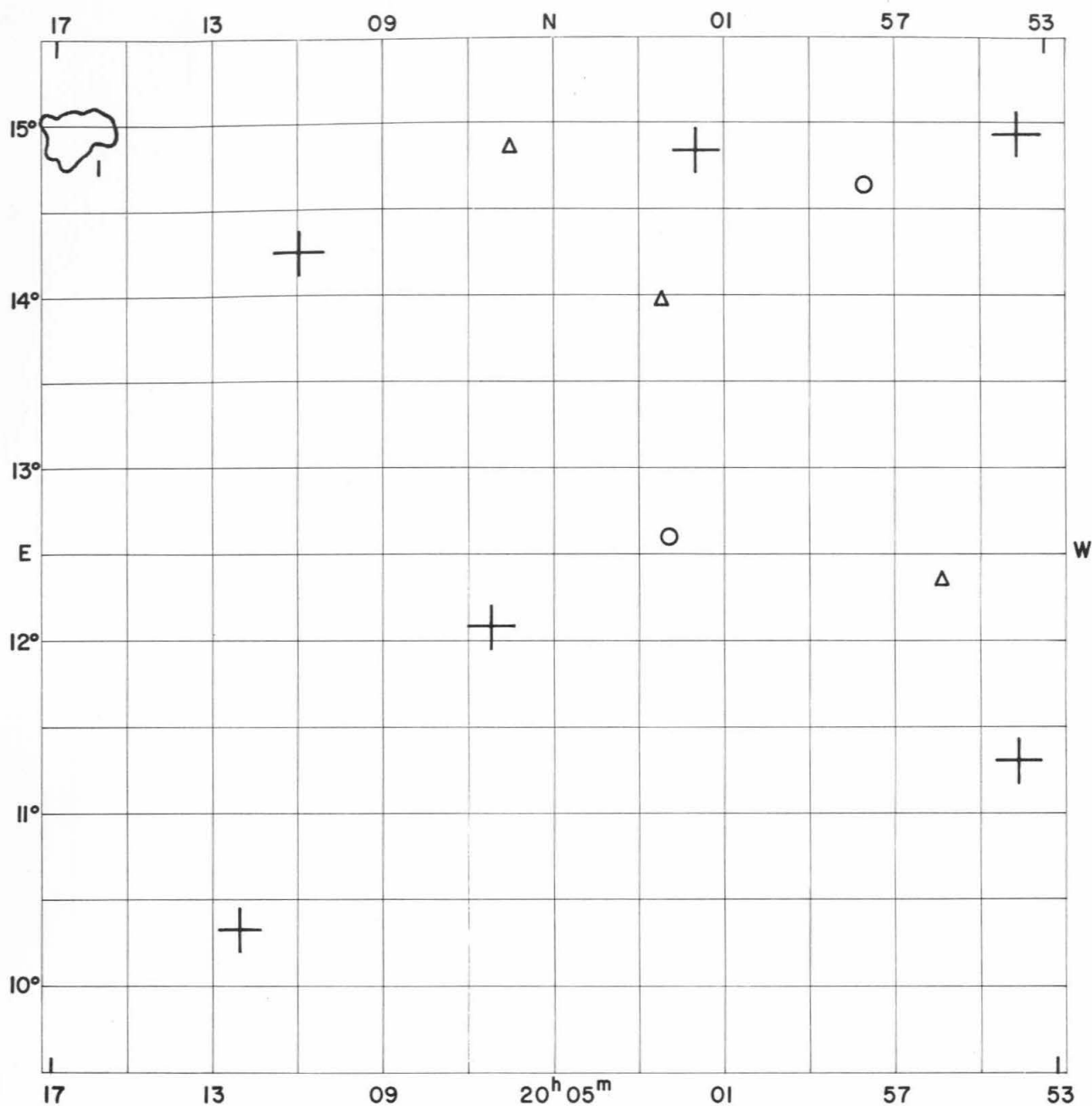
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0529.2 + 0516	open	153	17.0	Near	1
0531.9 + 0424	compact	62	2.2	D	2

Average number of galaxies per cluster = 107.5

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
5	33.6	+ 07	18		15.6		
5	34.5	+ 08	56		15.7		
5	39.0	+ 06	40		15.7		



FIELD No. 423

$20^{\text{h}}05^{\text{m}} + 12^{\circ}30'$

Survey Plate No. 325

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
27600	19	53	41.8	+	14	54 48	7.14
27604	19	53	52.1	+	11	17 23	5.29
27819	20	01	31.1	+	14	50 28	6.86
27955	20	06	28.1	+	12	04 52	7.02
28076	20	11	06.2	+	14	15 30	7.47
28118	20	12	28.2	+	10	19 09	6.94

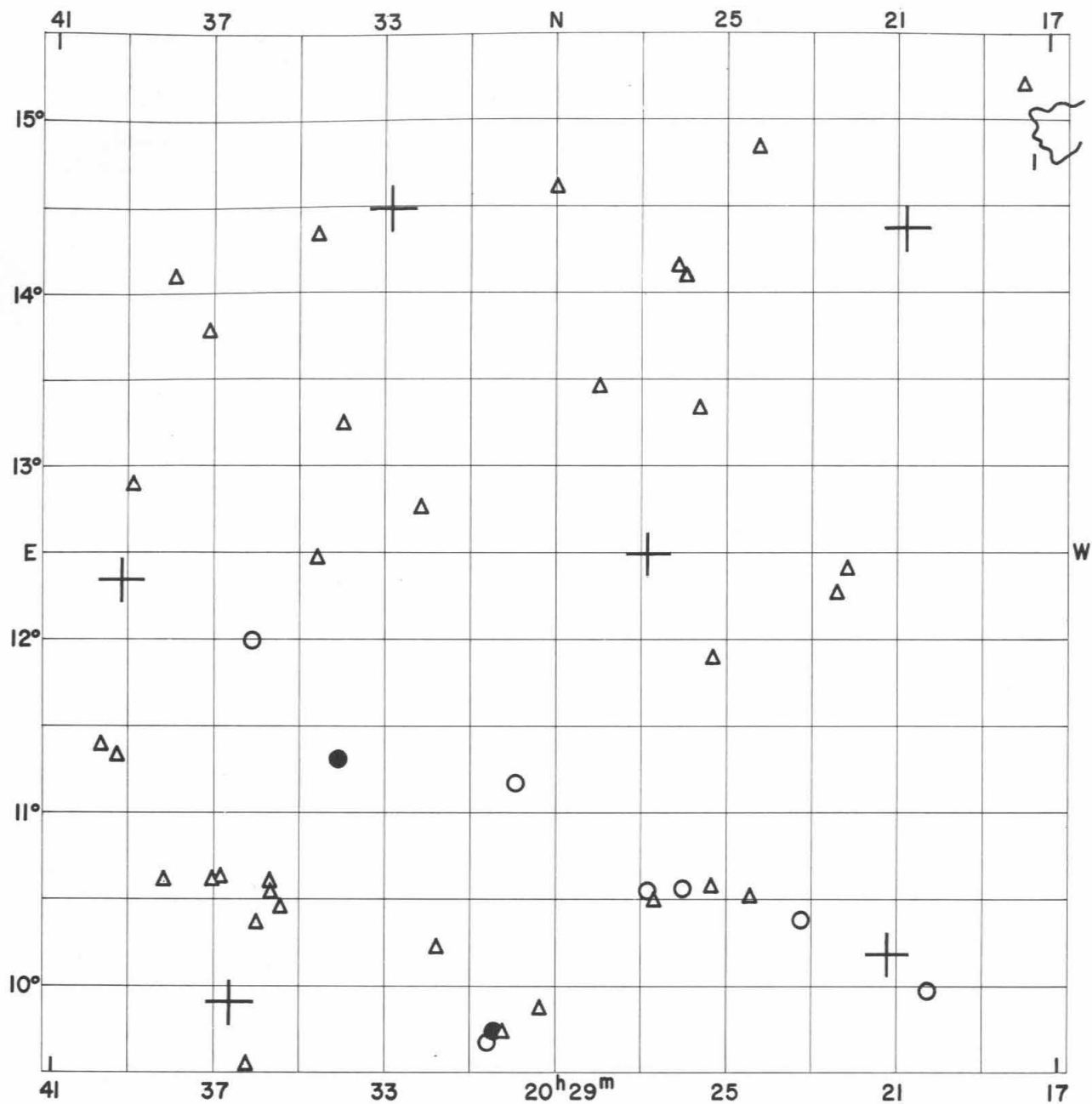
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
2016.6 + 1457	compact	64	1.9	D	1

Average number of galaxies per cluster = 64.0

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
19	55.7	+ 12	20		15.5		
19	57.5	+ 14	38		14.9		
20	02.2	+ 12	35		14.4		
20	02.4	+ 13	58		15.7		
20	06.1	+ 14	52		15.5		



FIELD No. 424
 $20^{\text{h}}29^{\text{m}} + 12^{\circ}30'$
 Survey Plate No. 812

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
28343	20	20	32.3	+	14	23 24	6.22
28360	20	21	02.9	+	10	12 04	6.79
28499	20	26	46.9	+	12	30 49	6.87
28659	20	32	58.2	+	14	30 02	4.69
28756	20	36	42.0	+	9	54 32	5.23
28837	20	39	23.3	+	12	20 22	7.6

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2016.6 + 1457	compact	64	1.9	D	1

Average number of galaxies per cluster = 64.0

GALAXIES

Position a 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
20	17.7	+15 14		15.3		
20	20.2	+09 59		15.0		
20	22.0	+12 25		15.7		
20	22.2	+12 17		15.4		
20	23.1	+10 25		14.9		
20	24.1	+14 51		15.7		
20	24.3	+10 32		15.1		
20	25.2	+11 54		15.7		
20	25.2	+10 35		15.1		
20	25.5	+13 21		15.4		
20	25.8	+14 07		15.3		
20	25.9	+10 35		15.0		
20	26.0	+14 10		15.7		
20	26.7	+10 31		15.4		
20	26.8	+10 35		14.9		
20	27.9	+13 29		15.7		
20	29.0	+14 37		15.7		
20	29.4	+09 53		15.7		
20	29.9	+11 12		14.7		
20	30.2	+09 45	6927	15.6	+ 4277	
20	30.5	+09 45	6928	13.7	+ 4754	
20	30.6	+09 41	6930	14.3	+ 4182	
20	31.8	+10 14		15.7		
20	32.2	+12 46		15.6		
20	34.1	+13 15		15.5		
20	34.2	+11 20		14.0		
20	34.7	+12 28		15.1		
20	34.8	+14 20		15.7		
20	35.5	+10 27		15.1		
20	35.8	+10 33		15.5		
20	35.8	+10 36		15.7		
20	36.1	+10 22		15.7		
20	36.3	+09 33		15.1		
20	36.3	+12 00		14.9		
20	36.9	+10 37		15.2		
20	37.2	+10 37		15.7		
20	37.3	+13 47		15.7		
20	38.1	+14 05		15.4		
20	38.3	+10 37		15.5		
20	39.1	+12 53		15.6		
20	39.4	+11 20		15.7		
20	39.8	+11 23		15.5		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
6927	-	-	15.56	S0	15.6	S0	-	-
6928	-	-	13.72	Sa	13.8	Sa	-	-
6930	-	-	14.14	Sb	14.0	Sb	-	-

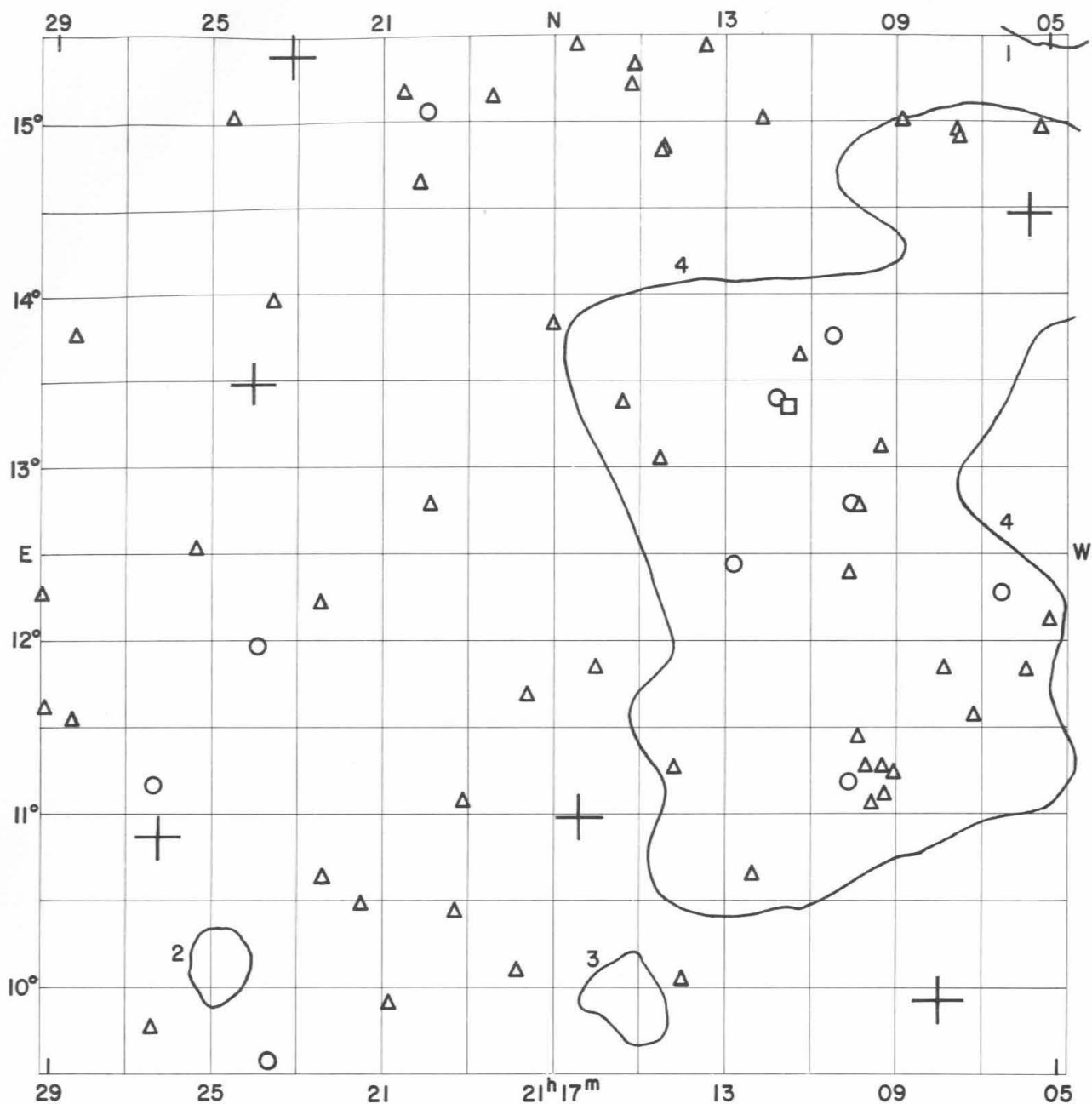
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
2100.0 + 1623	open	170	12.3	Near	2
2102.6 + 1351	compact	90	1.5	VD	3
2104.0 + 1313	compact	40	0.5	ED	1
2110.2 + 1238	open	215	18.7	Near	4

Average number of galaxies per cluster = 128.8

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	i				
20	41.6	+12	20	6956	13.5		
20	41.8	+12	14		14.5		
20	42.1	+12	19		15.2		
20	43.0	+12	47		15.6		
20	44.4	+11	06		15.5		
20	44.8	+10	54		15.7		
20	45.1	+12	54		14.7		
20	45.7	+13	33		15.4		
20	46.9	+11	07		15.2		
20	47.5	+09	46		15.5		
20	47.6	+09	43	6972	14.3		
20	47.6	+12	51		15.6		
20	47.9	+13	10		15.6		
20	48.1	+09	38		15.4		
20	49.6	+13	18		15.3		
20	50.7	+13	24		15.7		
20	51.8	+10	22		15.3		
20	53.2	+15	19		15.2		double system
20	53.2	+15	20		15.6		compact
20	53.4	+10	20	6988	15.0		
20	54.1	+11	51		15.7		
20	54.8	+13	20		15.5		
20	55.2	+11	42		15.7		
20	55.2	+14	02		15.3		
20	55.4	+13	47		15.4		compact
20	55.7	+10	52		15.1		
20	55.8	+13	19		15.5		
20	56.7	+10	57		15.7		
20	56.7	+11	06		15.7		
20	57.1	+13	45		15.7		
20	57.7	+09	44		15.5		
20	58.4	+13	07		15.5		
20	58.5	+10	07		15.5		
20	59.9	+10	47		15.4		
20	59.9	+14	57		15.1		double system
21	00.5	+15	12		14.9		
21	00.6	+14	57		15.7		
21	01.4	+11	34	5083*	15.5		star superposed
21	01.6	+12	56		15.6		
21	03.3	+11	13	7015	13.2		
21	04.7	+10	48		15.7		very compact
21	05.2	+12	07		15.4		
21	05.3	+14	58		15.5		compact



FIELD No. 426

$21^{\text{h}}17^{\text{m}} + 12^{\circ}30'$

Survey Plate No. 298

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
29541	21	05	35.4	+	14	28 15	6.86
29591	21	07	54.6	+	9	55 45	4.76
29821	21	16	26.7	+	10	59 30	6.32
30011	21	23	24.3	+	15	24 05	6.96
30025	21	24	17.5	+	13	28 15	7.3
30071	21	26	26.7	+	10	51 56	6.70

CLUSTERS OF GALAXIES

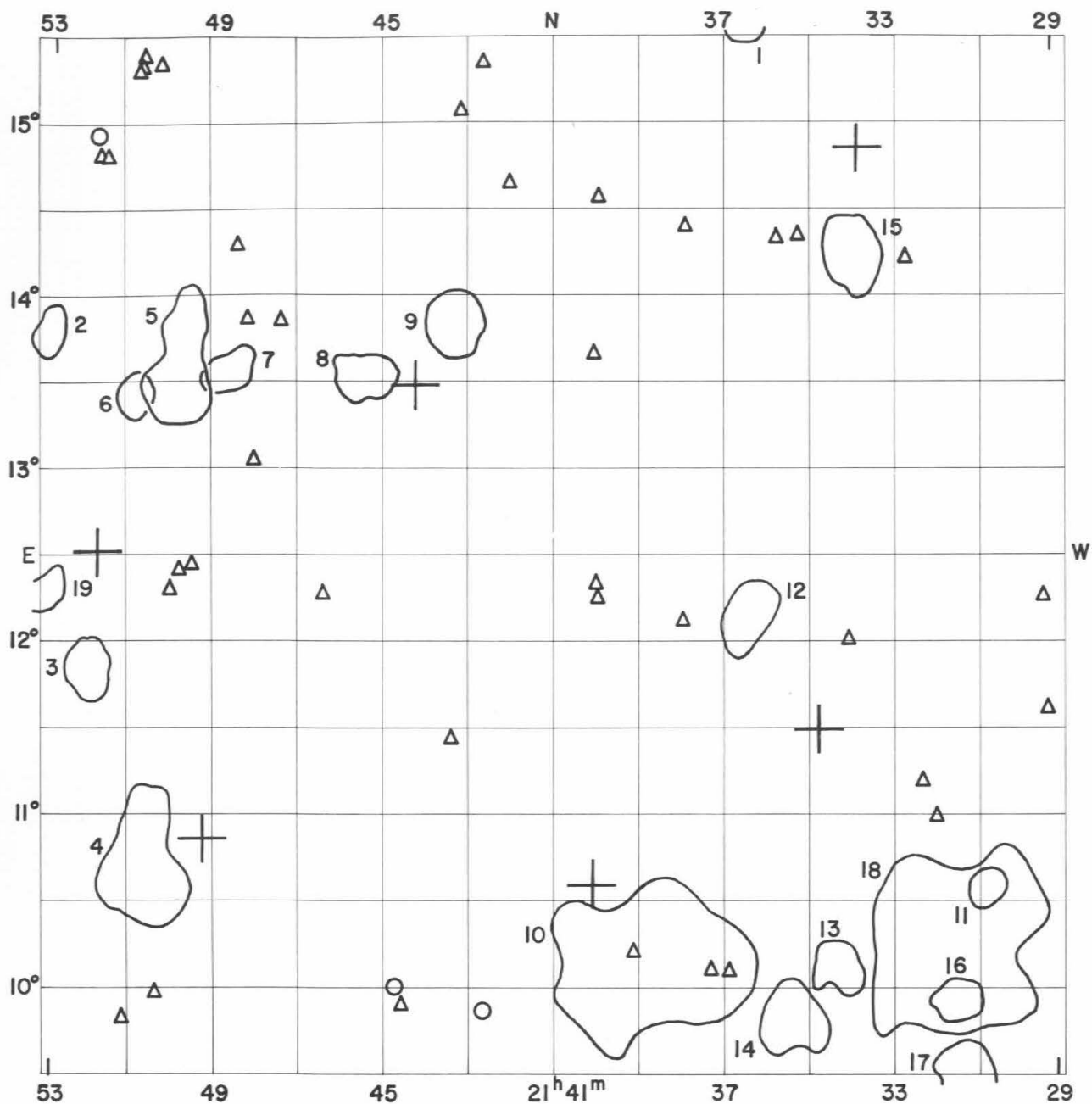
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2100.0 + 1623	open	170	12.3	Near	1
2110.2 + 1238	open	215	18.7	Near	4
2115.2 + 0951	open	78	2.5	VD	3
2124.9 + 1008	medium compact	67	2.1	ED	2

Average number of galaxies per cluster = 132.5

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
21	05.2	+12 07		15.4		
21	05.3	+14 58		15.5		compact
21	05.7	+11 50		15.7		
21	06.3	+12 16	1359*	14.8		
21	07.0	+11 34		15.7		
21	07.2	+14 55	7033	15.2		
21	07.3	+14 57	7034	15.3		
21	07.7	+11 51		15.6		
21	08.6	+15 00		15.7		compact
21	08.9	+11 14		15.7		
21	09.1	+11 07		15.7		
21	09.2	+11 17		15.6		very compact
21	09.2	+13 06		15.6		
21	09.4	+11 03		15.2		
21	09.6	+11 17		15.5		
21	09.7	+11 26		15.4		
21	09.7	+12 47		15.4		
21	09.8	+12 48		14.6		
21	09.9	+12 24		15.6		
21	10.0	+11 11		14.9		
21	10.2	+13 46		14.9		
21	11.2	+13 39		15.6		
21	11.4	+13 21	7042	13.0		
21	11.7	+13 24	7043	14.9		
21	12.0	+15 02		15.7		
21	12.4	+10 38		15.4		
21	12.7	+12 27		15.0		triple system
21	13.3	+15 27		15.6		
21	14.0	+10 03		15.5		
21	14.1	+11 16		15.3		
21	14.3	+14 50		15.3		
21	14.4	+14 49		15.3		
21	14.5	+13 02		15.1		
21	15.0	+15 20		15.3		
21	15.1	+15 15		15.5		compact
21	15.4	+13 22		15.6		
21	16.1	+11 51		15.7		
21	16.5	+15 27		15.7		
21	17.0	+13 51		15.3		
21	17.7	+11 42		15.7		
21	17.9	+10 06		15.6		
21	18.4	+15 09		15.7		
21	19.2	+11 05		15.6		
21	19.4	+10 26		15.3		compact

Position			NGC IC*	m_p	V_s km/sec	Remarks
α h m	1950	δ ° ' "				
21	20.0	+12 48		15.6		
21	20.1	+15 04		14.9		
21	20.3	+14 39		15.3		
21	20.7	+15 10		15.2		
21	21.0	+09 54		15.5		
21	21.7	+10 29		15.7		double system
21	22.6	+10 38		15.4		
21	22.6	+12 13		15.6		
21	23.8	+09 35		14.7		
21	23.8	+13 57	7066	15.2		
21	24.2	+11 59	7068	14.8		
21	24.7	+15 03		15.5		double system
21	25.6	+12 32		15.6		
21	26.6	+09 46		15.7		
21	26.6	+11 10		14.7		double system, bridge and jet
21	28.5	+11 33	5115*	15.7		
21	28.5	+13 46		15.5		
21	29.2	+11 37		15.5		compact
21	29.3	+12 15		15.7		



FIELD No. 427

$21^{\text{h}}41^{\text{m}} + 12^{\circ}30'$

Survey Plate No. 799

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
30241	21	33	42.1	+	14	51 32	6.69
30259	21	34	40.7	+	11	29 39	7.20
30386	21	40	06.3	+	10	35 44	5.95
30494	21	44	21.4	+	13	29 16	6.57
30602	21	49	24.8	+	10	51 20	6.90
30662	21	51	56.1	+	12	30 52	6.66

CLUSTERS OF GALAXIES

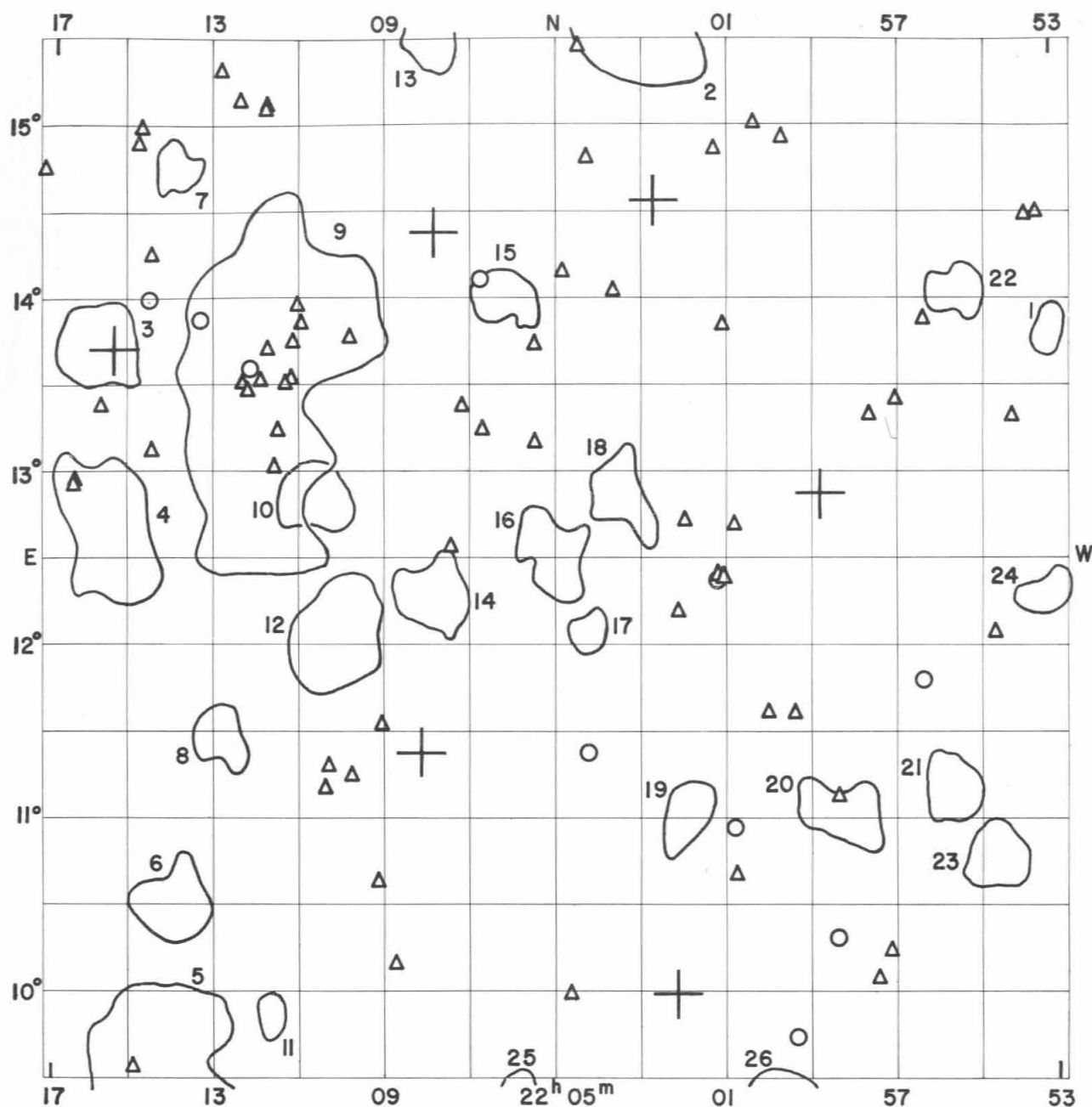
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2130.7 + 1034	compact	64	1.2	ED	11
2131.3 + 0930	open	82	1.9	VD	17
2131.4 + 0954	medium compact	53	1.4	ED	16
2131.5 + 1014	open	101	5.6	D	18
2133.8 + 1414	medium compact	84	2.1	VD	15
2134.3 + 1007	compact	91	1.6	ED	13
2135.3 + 0948	medium compact	105	2.1	ED	14
2136.4 + 1210	open	108	1.9	ED	12
2136.4 + 1536	compact	59	1.5	ED	1
2138.8 + 1008	medium compact	221	5.4	MD	10
2143.4 + 1350	medium compact	107	1.9	VD	9
2145.5 + 1332	medium compact	84	1.6	VD	8
2148.8 + 1334	compact	68	1.4	ED	7
2150.0 + 1332	medium compact	104	2.8	VD	5
2150.8 + 1040	open	158	3.2	ED	4
2151.0 + 1325	compact	83	1.2	ED	6
2152.1 + 1150	compact	117	1.6	ED	3
2153.1 + 1347	medium compact	61	1.2	ED	2
2153.2 + 1216	compact	75	1.4	VD	19

Average number of galaxies per cluster = 96.1

GALAXIES

Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
21	29.2	+11 37		15.5		compact
21	29.3	+12 15		15.7		
21	31.9	+10 59		15.7		
21	32.2	+11 12		15.6		
21	32.5	+14 14		15.6		compact
21	33.9	+12 01		15.6		
21	35.1	+14 22		15.1		compact
21	35.6	+14 20		15.6		
21	36.8	+10 06		15.7		
21	37.3	+10 06		15.4		compact
21	37.8	+14 24	1394*	15.3		compact
21	37.9	+12 07		15.7		
21	39.1	+10 13		15.7		
21	39.9	+12 16	7112	15.5		
21	39.9	+14 35		15.4		
21	40.0	+12 21	7113	15.2		
21	40.0	+13 40		15.4		
21	42.1	+14 40		15.4		
21	42.8	+09 52		15.0		
21	42.8	+15 21		15.7		
21	43.3	+15 04		15.7		
21	43.5	+11 26		15.7		
21	44.6	+09 53		15.7		
21	44.8	+10 00	7132	14.6		
21	46.6	+12 16	7138	15.4		
21	47.6	+13 51		15.7		
21	48.2	+13 02		15.4		
21	48.4	+13 51		15.5		
21	48.6	+14 17		15.6		

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
21	49.6	+12	26		15.7		
21	49.9	+12	25		15.7		
21	50.2	+12	17		15.6		
21	50.5	+09	58		15.7		compact
21	50.5	+15	20		15.6		diffuse spiral
21	50.8	+15	22		15.5		double system
21	50.9	+15	17		15.5		compact
21	50.9	+15	18		15.3		
21	51.2	+09	48		15.5		
21	51.7	+14	47	5144*	15.4		
21	51.9	+14	47		15.7		
21	52.0	+14	54	5145*	14.7		



FIELD No. 428

$22^{\text{h}}05^{\text{m}} + 12^{\circ}30'$

Survey Plate No. 1137

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
30803	21	58	39.1	+	12	52 47	5.66
30868	22	02	03.2	+	9	59 50	6.98
30883	22	02	38.3	+	14	34 22	6.72
31020	22	07	56.3	+	14	23 01	6.41
31026	22	08	10.2	+	11	22 43	5.92
31195	22	15	37.3	+	13	41 59	7.02

CLUSTERS OF GALAXIES

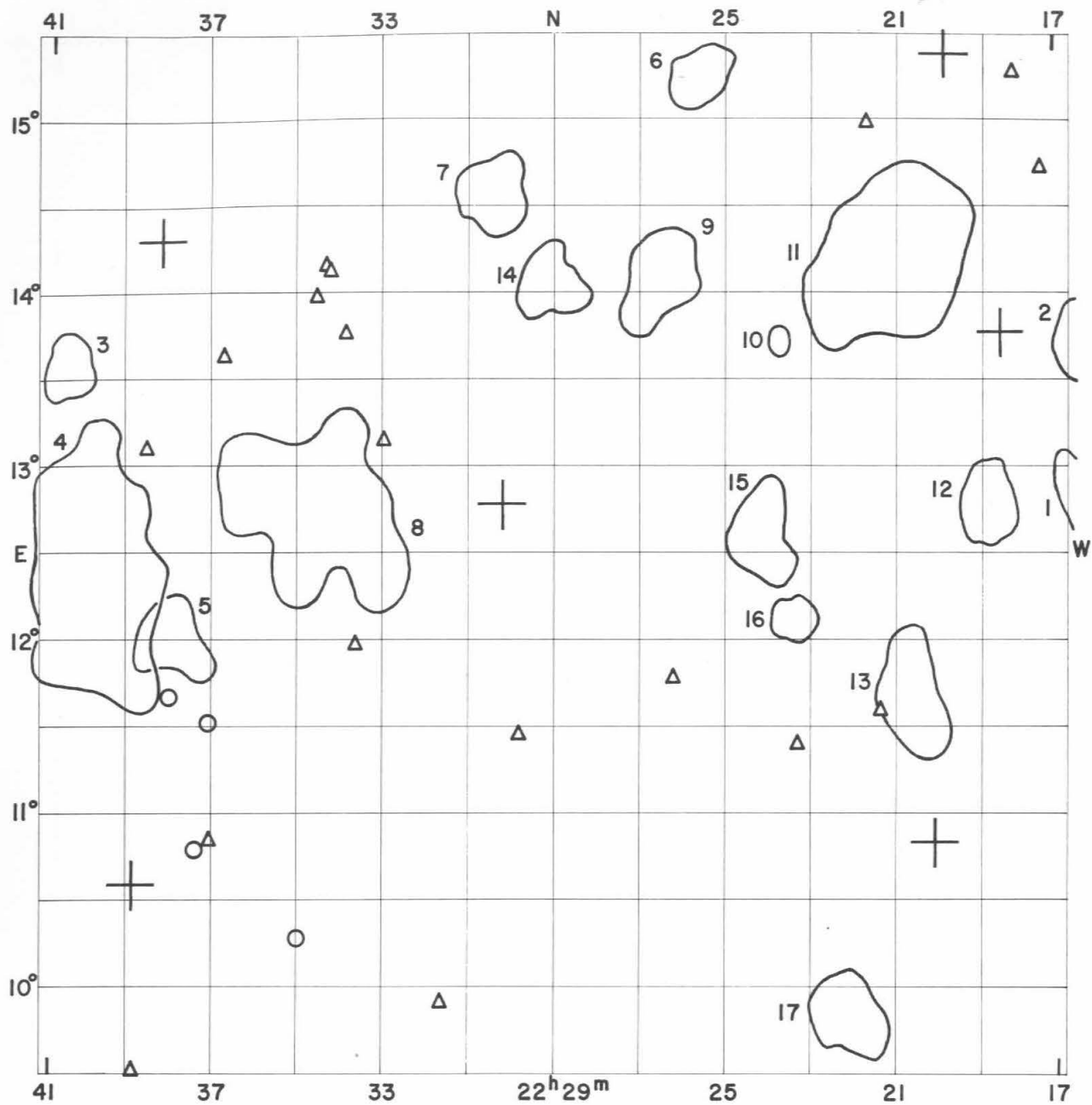
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2153.1 + 1347	medium compact	61	1.2	ED	1
2153.2 + 1216	compact	75	1.4	VD	24
2154.5 + 1045	open	87	2.0	ED	23
2155.3 + 1402	compact	66	1.8	ED	22
2155.6 + 1109	medium compact	81	2.0	ED	21
2158.2 + 1101	compact	155	2.3	ED	20
2159.8 + 0921	open	94	2.1	ED	26
2201.8 + 1101	medium compact	64	1.8	ED	19
2202.7 + 1628	medium compact	150	9.0	Near	2
2203.3 + 1251	compact	86	2.1	ED	18
2204.2 + 1204	medium compact	70	1.2	ED	17
2205.0 + 1230	medium compact	70	2.1	ED	16
2205.9 + 0920	open	83	1.6	ED	25
2206.2 + 1400	compact	108	1.9	ED	15
2207.9 + 1216	medium compact	101	2.1	ED	14
2208.0 + 1533	medium compact	117	2.2	ED	13
2210.3 + 1203	open	92	3.3	VD	12
2210.8 + 1251	medium compact	77	2.2	VD	10
2211.7 + 0951	medium compact	40	1.1	ED	11
2212.0 + 1326	open	136	7.9	Near	9
2213.0 + 1127	compact	72	1.8	ED	8
2213.6 + 0926	medium compact	108	5.4	MD	5
2214.1 + 1030	compact	99	2.3	ED	6
2214.1 + 1445	compact	63	1.5	ED	7
2215.6 + 1238	medium compact	98	3.8	D	4
2216.0 + 1343	medium compact	91	2.8	D	3

Average number of galaxies per cluster = 90.2

GALAXIES

Position a 1950 δ h m o	NGC IC*	m _p	V _s km/sec	Remarks
21 53.4 + 14 31		15.7		
21 53.7 + 14 30		15.5		
21 54.0 + 13 20	7159	15.2		
21 54.5 + 12 06		15.6		
21 56.2 + 11 48		14.3		
21 56.2 + 13 53		15.6		
21 56.8 + 13 25		15.7		
21 56.9 + 10 14		15.5		
21 57.3 + 10 06		15.6		
21 57.5 + 13 21		15.6		
21 58.2 + 10 19		14.7		
21 58.2 + 11 08		15.6		
21 59.2 + 09 45		14.8		
21 59.3 + 11 37		15.6		
21 59.6 + 14 57		15.5		
21 59.9 + 11 37		15.7		
22 00.2 + 15 01		15.3		double system
22 00.7 + 10 41	5160*	15.6		
22 00.7 + 10 58	7190	15.0		
22 00.7 + 12 43		15.7		
22 00.9 + 12 24		15.7		
22 01.0 + 12 25	7195	15.6		

Position			NGC IC*	m_p	V_s km/sec	Remarks
α h m	1950	δ ° ' "				
22 01.0		+ 13 51		15.7		
22 01.1		+ 12 23	7194	14.5		
22 01.2		+ 14 52	1427*	15.2		
22 01.9		+ 12 43		15.5		
22 02.0		+ 12 13		15.3		
22 03.6		+ 14 03		15.5		
22 04.2		+ 11 24		15.0		double system
22 04.3		+ 14 50		15.7		
22 04.5		+ 15 29		15.7		double system
22 04.6		+ 10 00	7212	15.1		
22 04.8		+ 14 10		15.7		
22 05.5		+ 13 10		15.6		
22 05.5		+ 13 44		15.7		
22 06.8		+ 13 16		15.5		
22 06.8		+ 14 07		14.7		
22 07.3		+ 13 23		15.7		
22 07.5		+ 12 34	5172*	15.6		
22 08.8		+ 10 10		15.7		star superposed
22 09.1		+ 10 38		15.5		
22 09.1		+ 11 33	5177*	15.2		
22 09.8		+ 11 15		15.1		
22 09.9		+ 13 47		15.2		
22 10.4		+ 11 19		15.7		
22 10.5		+ 11 11		15.5		
22 11.1		+ 13 52		15.6		
22 11.2		+ 13 58		15.7		
22 11.3		+ 13 33		15.6		
22 11.3		+ 13 45		15.7		
22 11.5		+ 13 30		15.4		
22 11.7		+ 13 14		15.4		
22 11.8		+ 13 02		15.5		
22 11.9		+ 13 42		15.5		
22 11.9		+ 15 08		15.5		
22 12.0		+ 15 06		15.6		
22 12.1		+ 13 32		15.7		compact
22 12.3		+ 13 35		14.3		triple system, connected
22 12.4		+ 13 28		15.7		
22 12.5		+ 13 30		15.7		compact
22 12.6		+ 15 09		15.3		
22 13.0		+ 15 20		15.3		
22 13.5		+ 13 53		14.6		
22 14.6		+ 13 07		15.6		
22 14.7		+ 13 59		14.6		extremely compact
22 14.7		+ 14 15		15.5		
22 14.9		+ 14 58		15.7		
22 15.0		+ 09 33		15.6		triple system
22 15.0		+ 14 52		15.7		
22 15.9		+ 13 22		15.6		
22 16.5		+ 12 55		15.7		
22 16.5		+ 12 56		15.7		
22 17.3		+ 14 44		15.7		



FIELD No. 429
 $22^{\text{h}}29^{\text{m}} + 12^{\circ}30'$
 Survey Plate No. 875

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
31233	22	18	15.5	+	13	46 49	6.65
31272	22	19	39.2	+	15	23 56	6.69
31276	22	19	49.4	+	10	49 40	8.7
31487	22	30	11.0	+	12	47 12	6.61
31655	22	38	23.9	+	14	17 09	5.81
31664	22	38	58.0	+	10	34 11	3.61

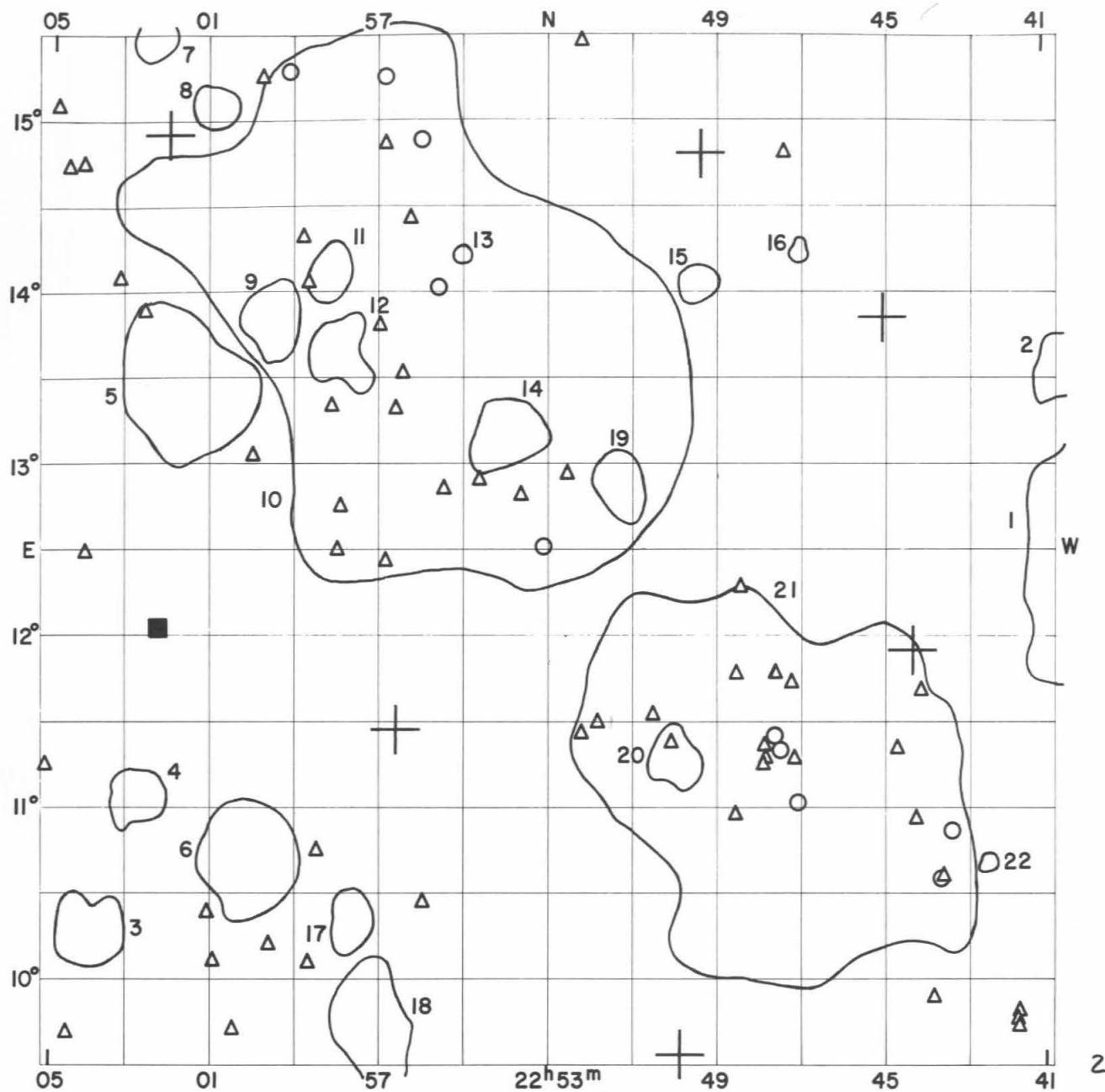
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2215.6 + 1238	medium compact	98	3.8	D	1
2216.0 + 1343	medium compact	91	2.8	D	2
2218.6 + 1246	open	82	2.2	VD	12
2220.4 + 1139	medium compact	75	3.1	VD	13
2220.9 + 1411	open	118	5.2	D	11
2222.0 + 0950	medium compact	97	2.3	D	17
2223.2 + 1207	medium compact	54	1.4	ED	16
2223.6 + 1344	compact	51	0.7	ED	10
2224.0 + 1236	medium compact	81	2.4	ED	15
2225.5 + 1515	medium compact	86	1.9	ED	6
2226.4 + 1404	medium compact	121	2.7	VD	9
2229.1 + 1402	open	59	2.1	ED	14
2230.4 + 1433	medium compact	107	2.2	ED	7
2234.6 + 1242	medium compact	155	5.4	D	8
2238.1 + 1158	compact	112	2.3	VD	5
2239.8 + 1222	open	123	6.2	D	4
2240.6 + 1332	medium compact	63	1.7	ED	3

Average number of galaxies per cluster = 92.5

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
22	17.3	+14 44		15.7		
22	18.0	+15 17		15.7		
22	21.2	+11 36		15.2		
22	21.5	+14 58		15.6		double system
22	23.2	+11 24		15.6		
22	26.1	+11 47		15.4		
22	29.8	+11 27	7305	15.1		compact
22	31.6	+09 54		15.5		
22	33.0	+13 08		15.6		
22	33.7	+11 58		15.7		
22	33.9	+13 45		15.7		
22	34.4	+14 07		15.7		
22	34.5	+14 09		15.4		
22	34.6	+13 57		15.6		
22	35.1	+10 16	7328	14.3		
22	36.9	+13 36		15.4		
22	37.1	+10 49	7346	15.6		
22	37.1	+11 31		14.9		
22	37.5	+10 46	7347	14.7		
22	38.1	+11 39	7348	14.8		
22	38.7	+13 04		15.7		
22	38.9	+09 29		15.1		compact



FIELD No. 430

$22^{\text{h}}53^{\text{m}} + 12^{\circ}30'$

Survey Plate No. 800

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
31778	22	44	11.6	+	11	54 57	4.31
31795	22	44	53.2	+	13	51 34	7.08
31881	22	49	17.6	+	14	49 12	6.89
31899	22	49	51.9	+	9	34 09	5.30
32034	22	56	41.6	+	11	27 40	5.79
32149	23	02	16.1	+	14	56 09	2.57

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2239.8 + 1222	open	123	6.2	D	1
2240.6 + 1332	medium compact	63	1.7	ED	2
2242.4 + 1040	compact	34	0.6	ED	22
2246.9 + 1415	compact	39	0.7	ED	16
2247.3 + 1107	open	162	12.2	Near	21
2249.3 + 1403	compact	64	1.2	ED	15
2249.9 + 1116	medium compact	104	1.7	ED	20
2251.3 + 1252	medium compact	105	1.8	ED	19
2254.0 + 1309	compact	167	2.2	ED	14
2255.2 + 1414	compact	35	0.5	ED	13
2255.8 + 1350	open	230	14.7	Near	10
2257.2 + 0945	medium compact	320	3.1	D	18
2257.7 + 1020	medium compact	75	1.6	ED	17
2258.1 + 1339	medium compact	83	2.0	VD	12
2258.3 + 1406	medium compact	73	1.6	ED	11
2259.7 + 1350	medium compact	73	2.1	VD	9
2300.2 + 1042	medium compact	207	3.4	VD	6
2301.1 + 1505	open	76	1.5	ED	8
2301.8 + 1325	open	321	4.5	ED	5
2302.6 + 1530	medium compact	59	1.4	ED	7
2302.9 + 1104	medium compact	84	1.8	ED	4
2304.0 + 1016	medium compact	131	2.1	VD	3

Average number of galaxies per cluster = 119.5

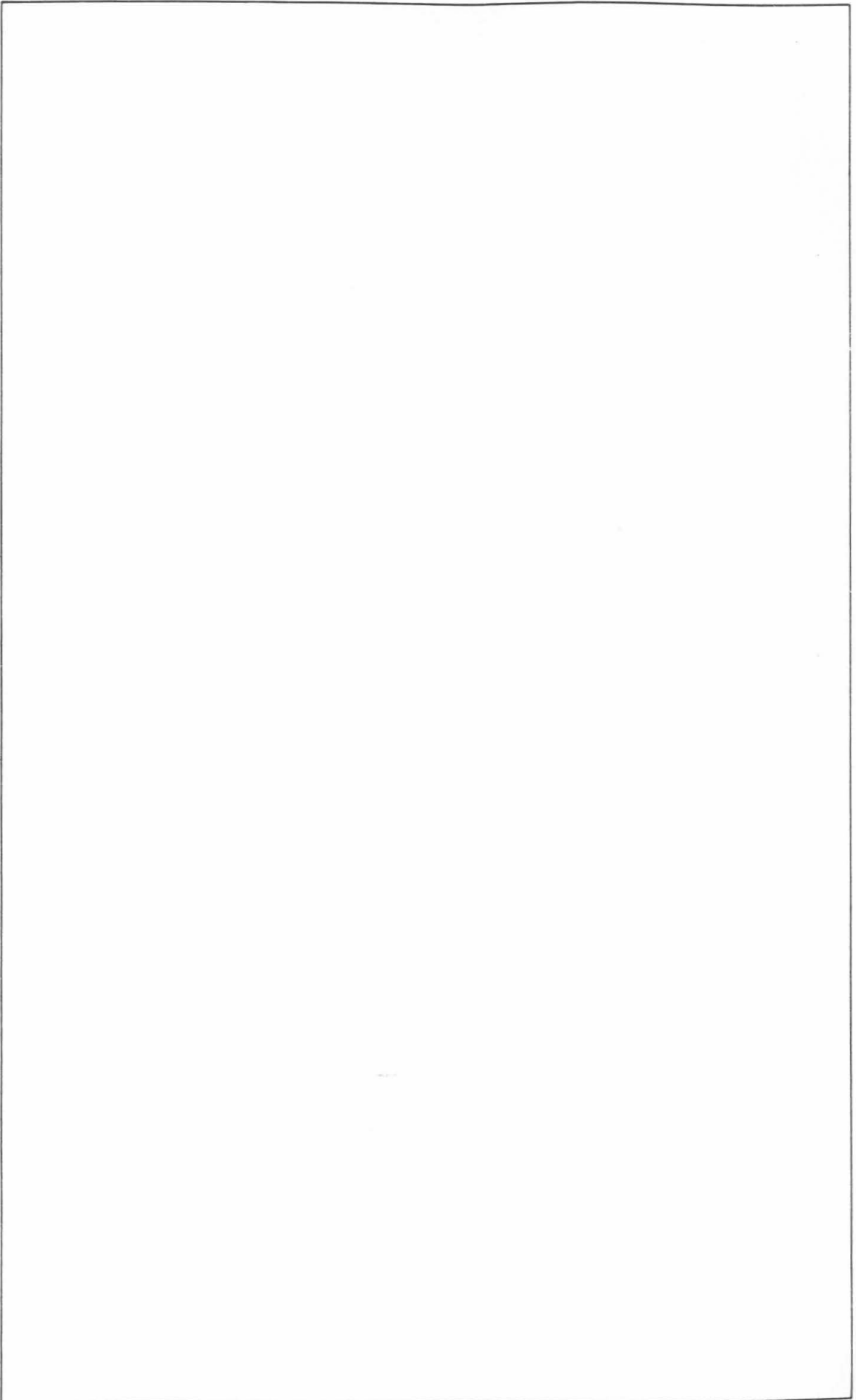
GALAXIES

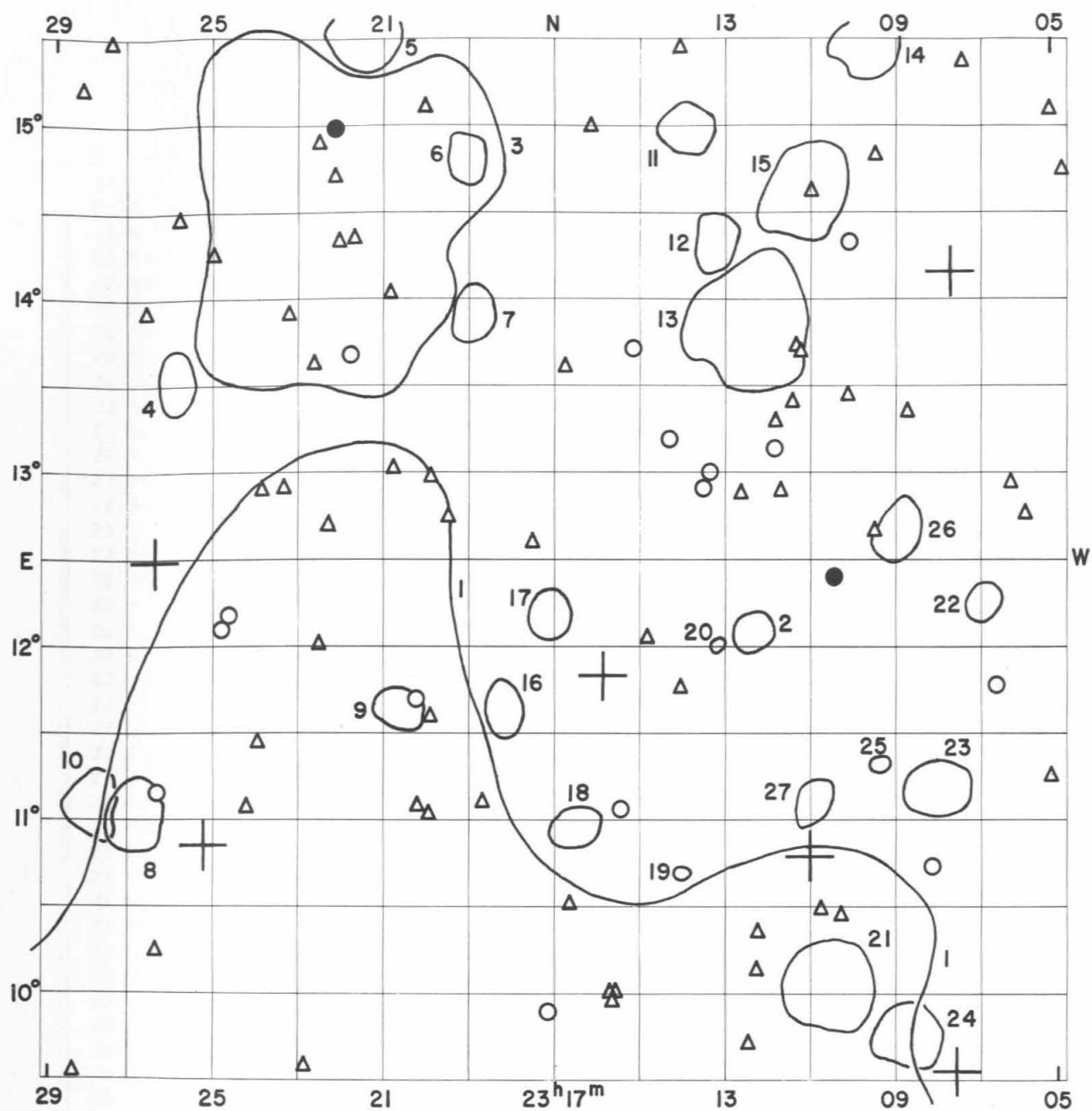
Position			NGC IC*	m_p	V_s km/sec	Remarks
α h	1950 m	δ o ' "				
22 41.7	+09 43			15.3		compact
22 41.7	+09 45			15.6		
22 41.7	+09 48			15.4		compact
22 43.3	+10 52		7372	14.6		
22 43.5	+10 35			15.6		
22 43.6	+10 35		7374	14.9		
22 43.8	+09 52			15.7		
22 44.0	+11 40			15.6		
22 44.2	+10 55			15.5		
22 44.6	+11 20			15.7		very diffuse
22 47.0	+11 03			14.8		
22 47.1	+11 17		7383	15.1		
22 47.1	+11 44			15.7		
22 47.2	+14 49			15.4		
22 47.4	+11 20		7385	14.4	+ 7829	
22 47.6	+11 25		7386	14.6	+ 7198	
22 47.6	+11 47			15.4		
22 47.8	+11 19		7389	15.2		
22 47.8	+11 22		7387	15.3		
22 47.9	+11 16		7390	15.7		
22 48.3	+12 17			15.5		compact
22 48.5	+10 58			15.4		
22 48.5	+11 48			15.4		
22 50.0	+11 23			15.2		
22 50.5	+11 33			15.6		
22 51.8	+11 30			15.7		

Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o				
22	52.2	+11 27		15.6		
22	52.2	+15 29		15.3		
22	52.6	+12 56	7413	15.2		
22	53.1	+12 32		14.4		
22	53.7	+12 49		15.7		
22	54.6	+12 54		15.6		
22	55.6	+12 52	7432	15.1		
22	55.7	+14 02	7437	14.4		
22	56.0	+10 28		15.3		compact
22	56.0	+14 53		15.0		
22	56.4	+14 25		15.7		
22	56.5	+13 32		15.6		
22	56.7	+13 19		15.2		
22	56.9	+12 26		15.6		
22	56.9	+14 53		15.7		
22	56.9	+15 17	7442	14.2		
22	57.1	+13 48		15.5		
22	58.0	+12 45		15.5		
22	58.1	+12 31		15.3		
22	58.3	+13 21		15.3		
22	58.6	+10 46		15.6		
22	58.8	+10 05		15.7		
22	58.8	+14 04		15.3		
22	59.0	+14 20		15.7		
22	59.3	+15 19	7461	14.5		
22	59.7	+10 12		15.7		
22	59.9	+15 17	7467	15.6		very compact
23	00.2	+13 03		15.3		
23	00.6	+09 42		15.6		
23	01.0	+10 07		15.5		
23	01.2	+10 23		15.7		
23	02.4	+12 03	7479	11.7	+ 2459	$m_H = 11.9$ SBc
23	02.8	+13 53		15.5		
23	03.4	+14 05		15.3		
23	04.2	+12 28		15.6		resolved dwarf system
23	04.3	+14 45		15.6		
23	04.6	+09 40		15.5		
23	04.6	+14 44		15.7		
23	04.8	+15 05		15.7		diffuse
23	05.1	+11 16		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
7385	-	-	14.32	E0	14.1	E0	-	-
7386	-	-	14.66	S0	14.6	S0	-	-
7479	-	-	11.72	SBc	11.6	SBb	-	-





FIELD No. 431
 $23^{\text{h}}17^{\text{m}} + 12^{\circ}30'$
 Survey Plate No. 313

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
32266	23	07	27.5	+	14	09 21	7.7
32267	23	07	30.3	+	9	33 02	5.34
32331	23	10	55.4	+	10	47 34	5.94
32445	23	15	52.5	+	11	50 33	8.5
32645	23	25	24.1	+	10	51 39	8.47
32667	23	26	37.4	+	12	29 04	4.67

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2306.7 + 1215	compact	59	1.2	ED	22
2307.9 + 1111	medium compact	68	2.0	ED	23
2308.6 + 0944	medium compact	77	2.1	D	24
2308.8 + 1240	compact	73	1.6	ED	26
2309.3 + 1118	compact	35	0.6	ED	25
2309.5 + 1527	medium compact	63	2.0	VD	14
2310.5 + 1002	medium compact	117	2.8	VD	21
2310.8 + 1106	medium compact	58	1.2	ED	27
2310.9 + 1436	compact	136	2.9	ED	15
2312.2 + 1205	compact	50	1.3	ED	2
2312.3 + 1350	medium compact	203	4.1	D	13
2313.1 + 1201	compact	40	0.4	ED	20
2313.1 + 1420	medium compact	61	1.6	ED	12
2313.8 + 1458	medium compact	70	1.7	ED	11
2314.0 + 1042	compact	33	0.5	ED	19
2316.5 + 1057	compact	57	1.4	ED	18
2317.1 + 1210	medium compact	61	1.4	VD	17
2318.2 + 1138	compact	74	1.4	ED	16
2319.0 + 1353	open	58	1.5	ED	7
2319.1 + 1448	medium compact	76	1.4	ED	6
2320.0 + 0845	medium compact	969	33.8	Near	1
2320.7 + 1138	medium compact	57	1.4	ED	9
2321.6 + 1530	medium compact	78	2.2	VD	5
2322.4 + 1427	medium compact	352	10.4	Near	3
2326.1 + 1329	medium compact	57	1.4	ED	4
2327.0 + 1059	medium compact	95	2.1	ED	8
2328.0 + 1104	medium compact	68	1.8	VD	10

Average number of galaxies per cluster = 116.5

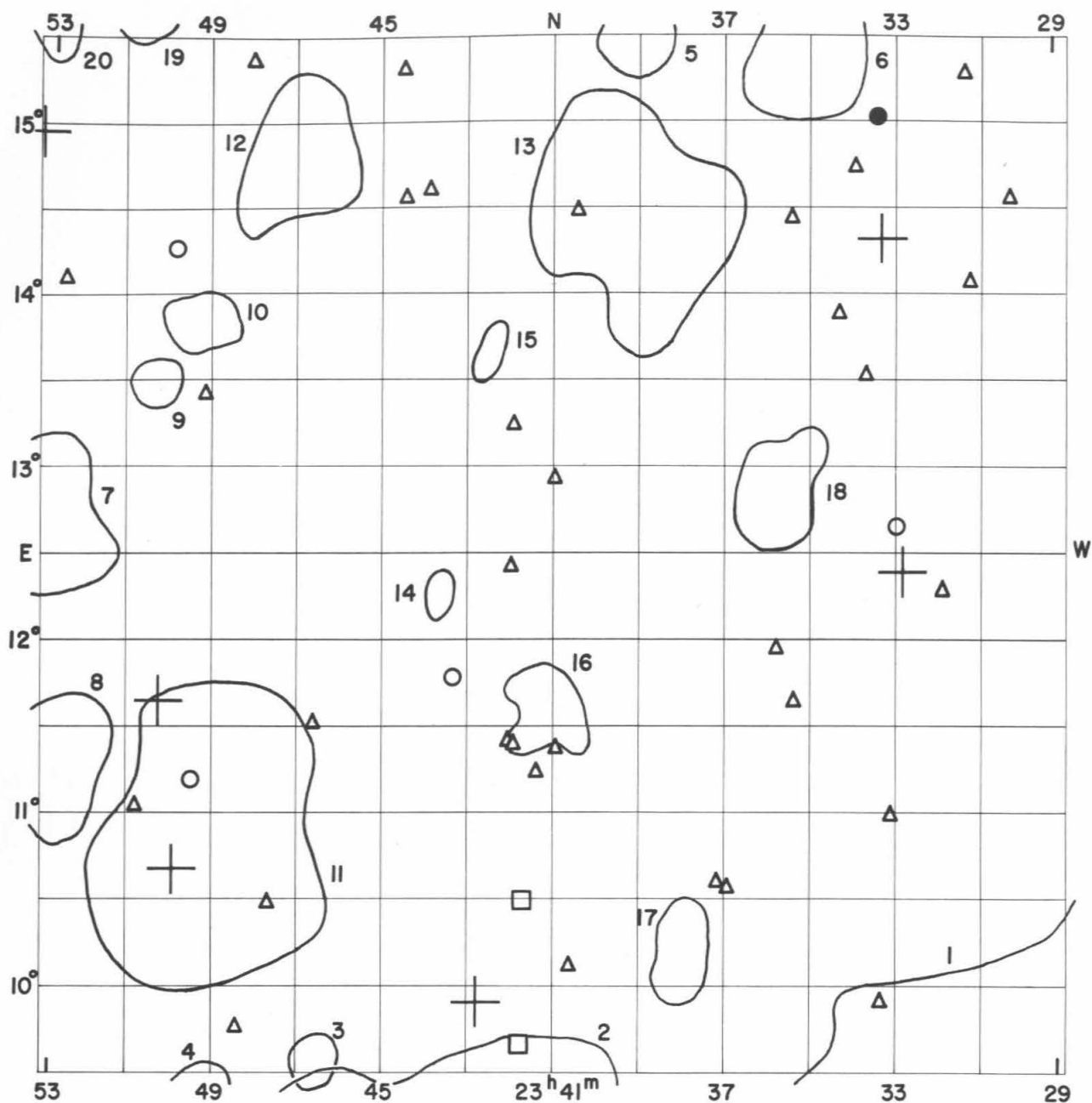
GALAXIES

Position α 1950 δ	NGC IC*	m _P	V _s km/sec	Remarks
h m o				
23 04.6 + 14 44		15.7		
23 04.8 + 15 05		15.7		diffuse
23 05.1 + 11 16		15.7		
23 05.8 + 12 47		15.4		
23 06.0 + 12 57		15.7		
23 06.5 + 11 48	7495	14.7		
23 07.2 + 15 24		15.7		
23 08.0 + 10 45	7500	14.9		
23 08.6 + 13 21	7505	15.6		
23 09.2 + 14 50		15.6		
23 09.3 + 12 42	7508	15.7		
23 09.9 + 13 27	7511	15.1		
23 09.9 + 14 21	7509	15.0		compact
23 10.2 + 10 28		15.4		
23 10.3 + 12 25	7515	14.0		
23 10.7 + 10 31	7519	15.2		double system
23 10.8 + 14 38		15.7		
23 11.1 + 13 44	7523	15.7		
23 11.2 + 13 45	7525	15.2		double system
23 11.3 + 13 25	5292*	15.5		
23 11.6 + 12 54		15.4		

Position a 1950 δ				NGC IC*	m_p	V_s km/sec	Remarks
h	m	o	r				
23	11.7	+13	10	7536	14.8		
23	11.7	+13	19	7535	15.6		
23	12.2	+10	08		15.4		
23	12.2	+10	23	7542	15.7		
23	12.4	+09	43		15.5		
23	12.5	+12	52		15.5		
23	13.3	+13	01	7559	14.7		double system
23	13.4	+12	55	7563	14.5		
23	13.9	+15	29		15.7		
23	14.0	+11	47		15.6		
23	14.2	+13	13	7570	14.3		
23	14.8	+12	04		15.7		
23	15.1	+13	44	7580	14.8		
23	15.4	+11	05	7593	14.6		
23	15.6	+09	58	5306*	15.6		double system
23	15.6	+10	02	5305*	15.4		
23	15.7	+10	02	1478*	15.3		
23	16.1	+15	02		15.7		
23	16.7	+10	32		15.7		
23	16.8	+13	38		15.7		double system, bridge
23	17.1	+09	54	7610	14.9		
23	17.5	+12	37		15.7		
23	18.8	+11	08	7630	15.5		
23	19.6	+12	46		15.7		
23	20.0	+11	04	1483*	15.5		
23	20.0	+11	37	7641	15.2		
23	20.0	+12	59		15.6		
23	20.2	+15	07		15.7		
23	20.3	+11	07	1485*	15.6		
23	20.3	+11	43	7643	14.8		
23	20.8	+13	03		15.5		
23	21.0	+14	03		15.7		
23	21.8	+14	22	7649	15.7		
23	21.9	+13	42	7651	15.0		double system
23	22.2	+14	21	1487*	15.7		compact
23	22.3	+14	43		15.7		
23	22.3	+15	00	7653	13.8		
23	22.4	+12	41		15.7		double system
23	22.6	+12	02		15.5		
23	22.7	+14	55		15.4		
23	22.8	+13	37		15.7		
23	22.9	+09	36		15.5		
23	23.4	+13	56	7659	15.1		
23	23.5	+12	55		15.4		
23	24.0	+12	55		15.7		extremely compact
23	24.1	+11	28		15.6		
23	24.3	+11	05		15.6		compact
23	24.8	+12	12	7671	14.3	+ 4129	
23	25.0	+12	07	7672	14.8		
23	25.2	+14	16		15.7		
23	26.0	+14	27		15.5		resolved dwarf system
23	26.5	+10	14		15.7		
23	26.5	+11	10	7683	14.6		
23	26.8	+13	55		15.5		
23	27.7	+15	29		15.4		
23	28.4	+09	32		15.6		
23	28.4	+15	13		15.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
7671	-	-	14.04	S0	13.8	S0	-	-



FIELD No. 432

$23^{\text{h}}41^{\text{m}} + 12^{\circ}30'$

Survey Plate No. 318

AGK2 + GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
+ $12^{\circ}2769$	23	32	38.9	+	12	23 11	7.3
+ $14^{\circ}2621$	23	33	05.4	+	14	19 02	7.7
32977	23	42	48.7	+	9	54 08	6.54
33122	23	50	03.9	+	10	40 09	5.39
33133	23	50	26.5	+	11	38 48	7.27
33191	23	53	21.1	+	14	57 07	6.59

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2320.0 + 0845	medium compact	969	33.8	Near	1
2334.8 + 1543	open	116	6.0	MD	6
2335.6 + 1250	medium compact	67	3.2	VD	18
2337.9 + 1010	medium compact	195	2.3	ED	17
2339.0 + 1528	open	91	2.4	ED	5
2339.2 + 1425	open	119	6.8	MD	13
2341.1 + 1135	medium compact	73	2.4	VD	16
2342.6 + 1338	medium compact	56	1.3	ED	15
2343.4 + 0845	medium compact	245	11.1	Near	2
2343.7 + 1215	medium compact	68	1.2	ED	14
2346.6 + 0932	medium compact	55	1.6	ED	3
2347.2 + 1447	open	98	4.2	D	12
2347.5 + 0707	open	120	16.0	Near	4
2349.0 + 1045	open	142	8.4	Near	11
2349.4 + 1348	medium compact	80	2.1	VD	10
2349.7 + 1653	open	234	10.8	MD	19
2350.6 + 1327	compact	73	1.6	ED	9
2353.0 + 1535	medium compact	66	2.1	VD	20
2353.4 + 1238	open	85	4.6	D	7
2353.8 + 1120	medium compact	133	5.6	MD	8

Average number of galaxies per cluster = 154.3

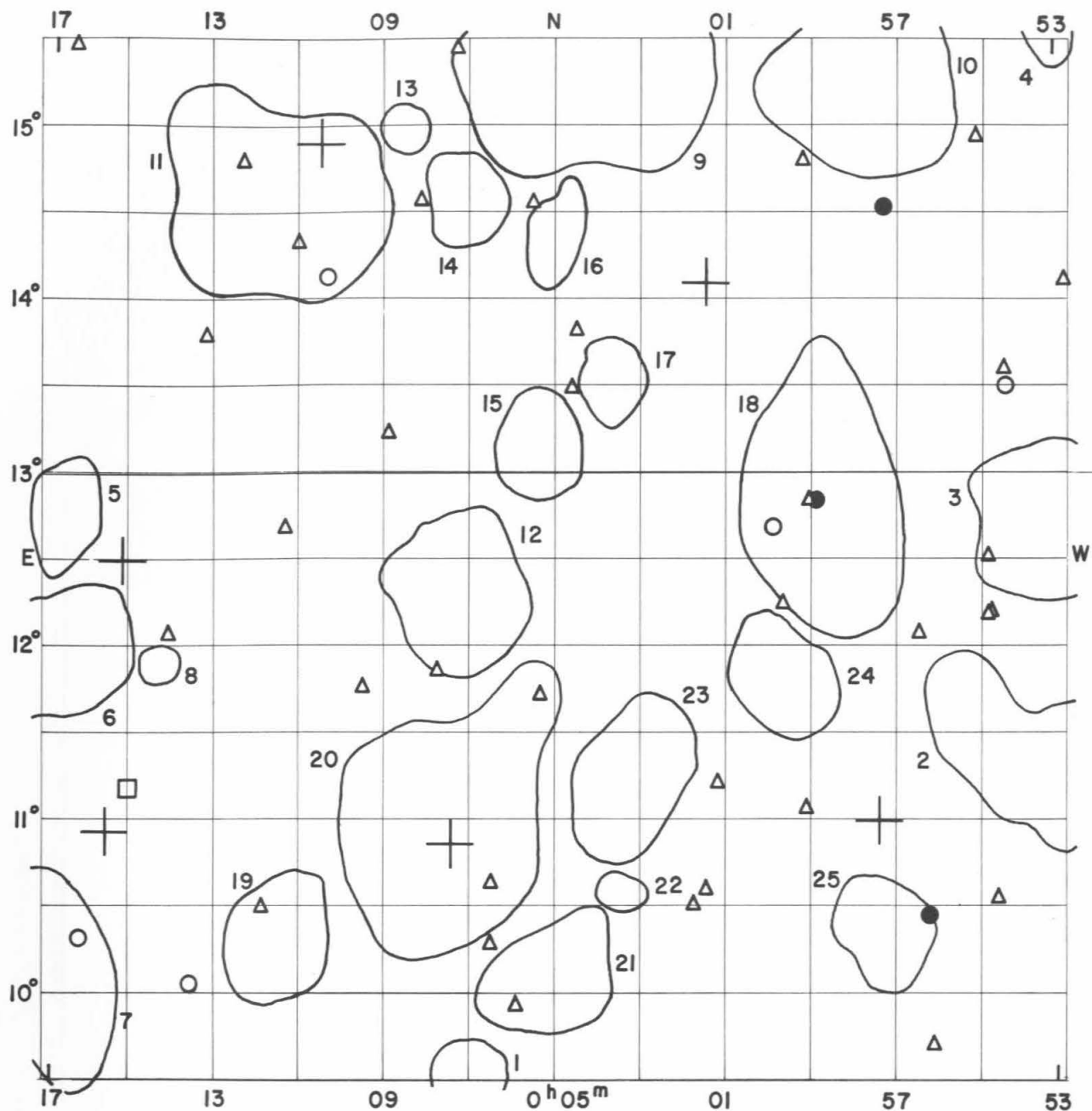
GALAXIES

Position a 1950 δ h m o r			NGC IC*	m_p	V_s km/sec	Remarks
23 30.0 + 14 34				15.3		
23 31.0 + 14 05				15.3		very diffuse
23 31.1 + 15 17				15.7		very diffuse
23 31.8 + 12 17				15.5		
23 32.8 + 12 40				14.9		
23 33.0 + 10 59				15.7		compact
23 33.1 + 15 02			7711	14.0		
23 33.2 + 09 53				15.6		
23 33.5 + 13 32				15.7		
23 33.7 + 14 45				15.7		double system
23 34.1 + 13 53				15.7		extremely diffuse
23 35.2 + 14 27				15.6		
23 35.3 + 11 39				15.6		
23 35.7 + 11 57				15.3		
23 36.8 + 10 35				15.7		
23 37.1 + 10 36				15.7		
23 40.4 + 14 30				15.6		
23 40.7 + 10 07				15.5		
23 41.0 + 11 23				15.5		
23 41.0 + 12 55				15.1		
23 41.4 + 11 15				15.7		
23 41.8 + 09 39			7743	12.9	+ 1802	$m_H = 12.8$
23 41.8 + 10 30			7742	12.5	+ 1689	$m_H = 12.7$
23 42.0 + 11 24				15.7		
23 42.0 + 12 26				15.5		double system
23 42.0 + 13 15				15.7		
23 42.1 + 11 25				15.1		
23 43.4 + 11 47			1508*	14.6		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950		δ				
h	m	o	r				
23	44.0	+14	37		15.6		
23	44.5	+14	34		15.2		compact
23	44.6	+15	20		15.5		
23	46.7	+11	32		15.6		
23	47.8	+10	29		15.4		
23	48.2	+15	23		15.7		
23	48.5	+09	46		15.6		
23	49.3	+13	25		15.6		
23	49.6	+11	12	7774	14.6		double system
23	50.0	+14	17		15.0		
23	50.9	+11	03	1513*	15.1		
23	52.8	+14	06		15.5		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Bayall, Sandage, 1956		Holmberg 1958	
7742	-	-	12.29	Sb	12.2	Sb	-	-
7743	-	-	12.49	Sba	12.3	Sba	-	-



FIELD No. 433

$0^h 05^m \quad +12^\circ 30'$

Survey Plate Nos. E-9 and O-10

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	i	"	
33278	23	57	14.0	+	10	59 43	6.65
26	0	01	21.9	+	14	06 03	7.26
167	0	07	27.9	+	10	52 03	5.51
238	0	10	39.4	+	14	54 20	2.87
352	0	15	21.4	+	12	29 39	6.63
363	0	15	42.6	+	10	55 44	6.20

CLUSTERS OF GALAXIES

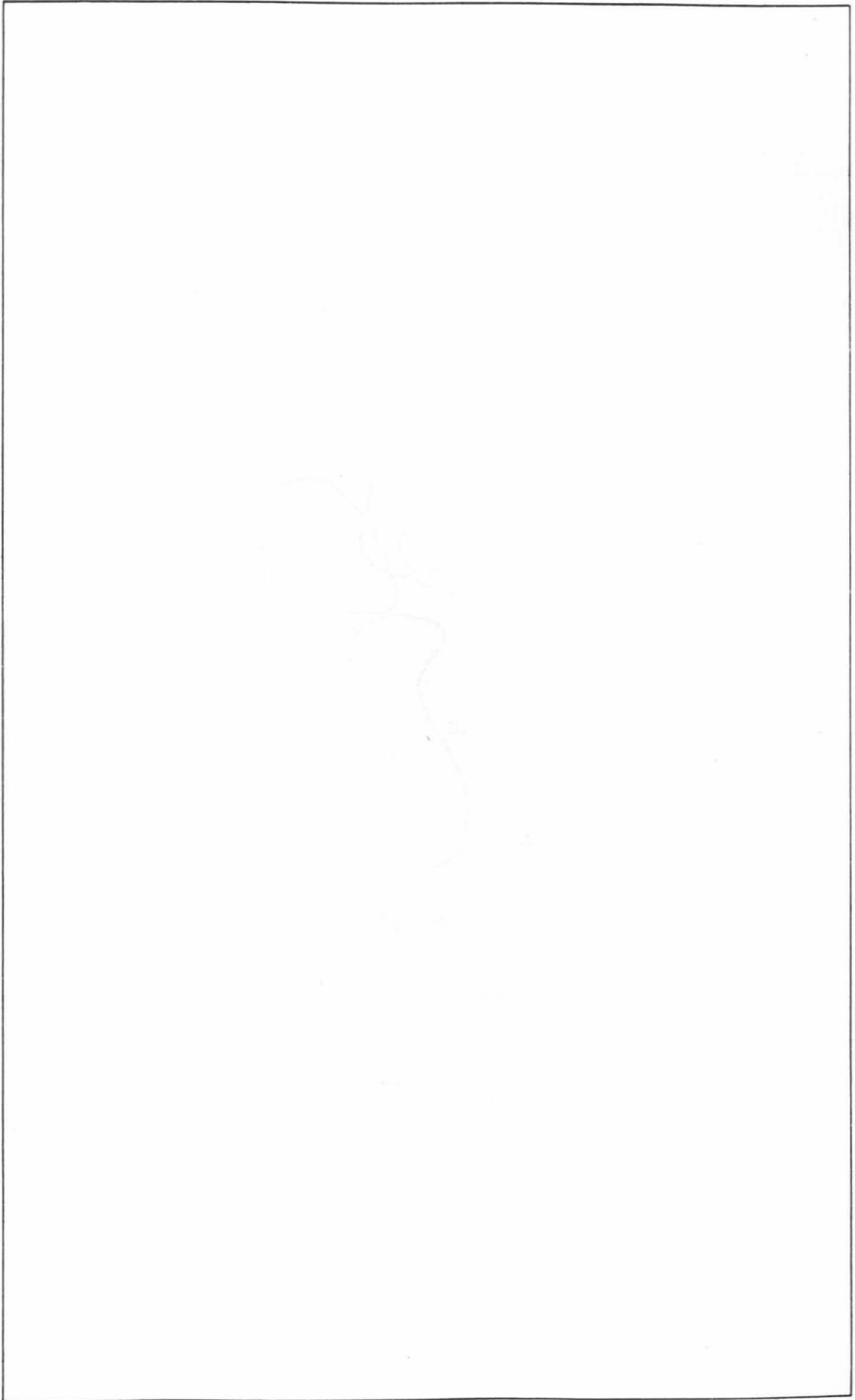
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2353.0 + 1535	medium compact	66	2.1	VD	4
2353.4 + 1238	open	85	4.6	D	3
2353.8 + 1120	medium compact	133	5.6	MD	2
2357.2 + 1020	medium compact	76	3.2	VD	25
2357.4 + 1515	medium compact	147	6.0	VD	10
2358.5 + 1246	open	122	6.6	D	18
2359.5 + 1147	compact	116	3.6	ED	24
0003.1 + 1114	medium compact	119	4.4	VD	23
0003.4 + 1035	compact	57	1.4	ED	22
0003.6 + 1331	medium compact	63	2.3	VD	17
0004.2 + 1516	open	171	7.2	D	9
0005.0 + 1003	open	117	4.0	VD	21
0005.0 + 1422	medium compact	103	2.3	VD	16
0005.3 + 1307	medium compact	58	3.2	VD	15
0006.9 + 0931	open	93	2.4	VD	1
0007.1 + 1435	open	63	2.8	ED	14
0007.2 + 1217	medium compact	129	4.8	VD	12
0007.7 + 1056	medium compact	142	7.4	D	20
0008.6 + 1458	medium compact	60	1.5	ED	13
0011.6 + 1017	medium compact	103	3.7	ED	19
0011.7 + 1435	open	111	6.8	MD	11
0014.5 + 1152	compact	55	1.3	ED	8
0016.8 + 1157	medium compact	177	4.2	VD	6
0016.8 + 1244	medium compact	133	2.8	VD	5
0017.2 + 1008	medium compact	133	5.6	VD	7

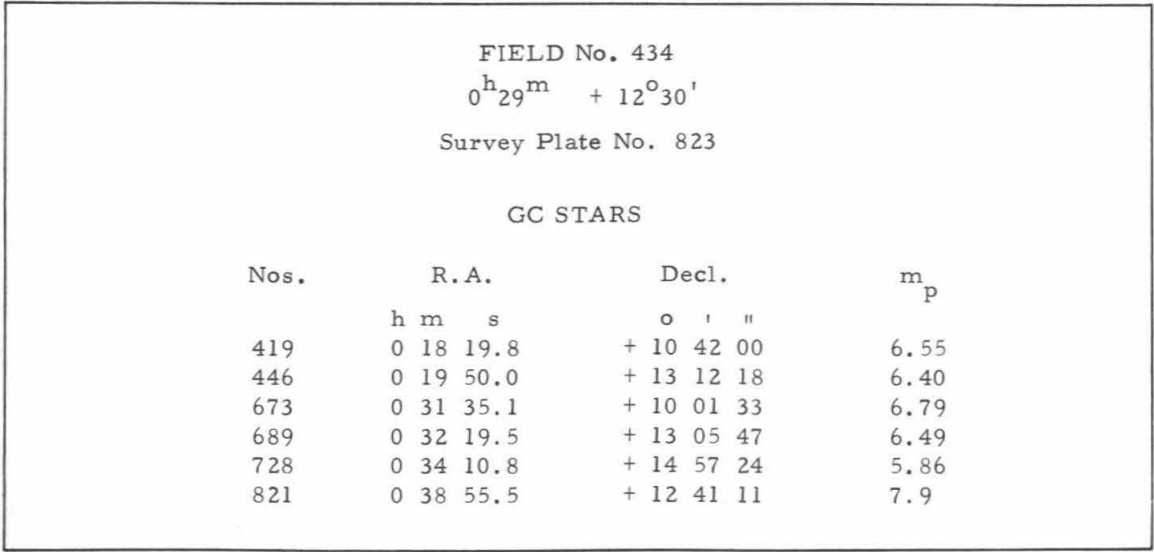
Average number of galaxies per cluster = 105.3

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
23	52.8	+ 14 06		15.5		
23	54.1	+ 13 30		14.3		
23	54.2	+ 13 35		15.6		
23	54.4	+ 10 33		15.2		
23	54.6	+ 12 11	1519*	15.7		
23	54.6	+ 12 12	1518*	15.7		
23	54.6	+ 12 30		15.6		
23	54.9	+ 14 56		15.6		
23	56.0	+ 09 41		15.3		
23	56.0	+ 10 26	7794	13.8		
23	56.3	+ 12 05		15.7		
23	57.0	+ 14 32	7800	13.4		
23	58.8	+ 12 50	7803	13.8		
23	58.9	+ 12 50		15.3		
23	59.0	+ 11 04	1526*	15.1		
23	59.0	+ 14 48		15.7		
23	59.5	+ 12 15		15.5		
23	59.8	+ 12 41	7810	14.3		
0	01.0	+ 11 13		15.6		
0	01.4	+ 10 35		15.7		compact
0	01.7	+ 10 30		15.2		
0	04.5	+ 13 48		15.6		
0	04.6	+ 13 29		15.7		

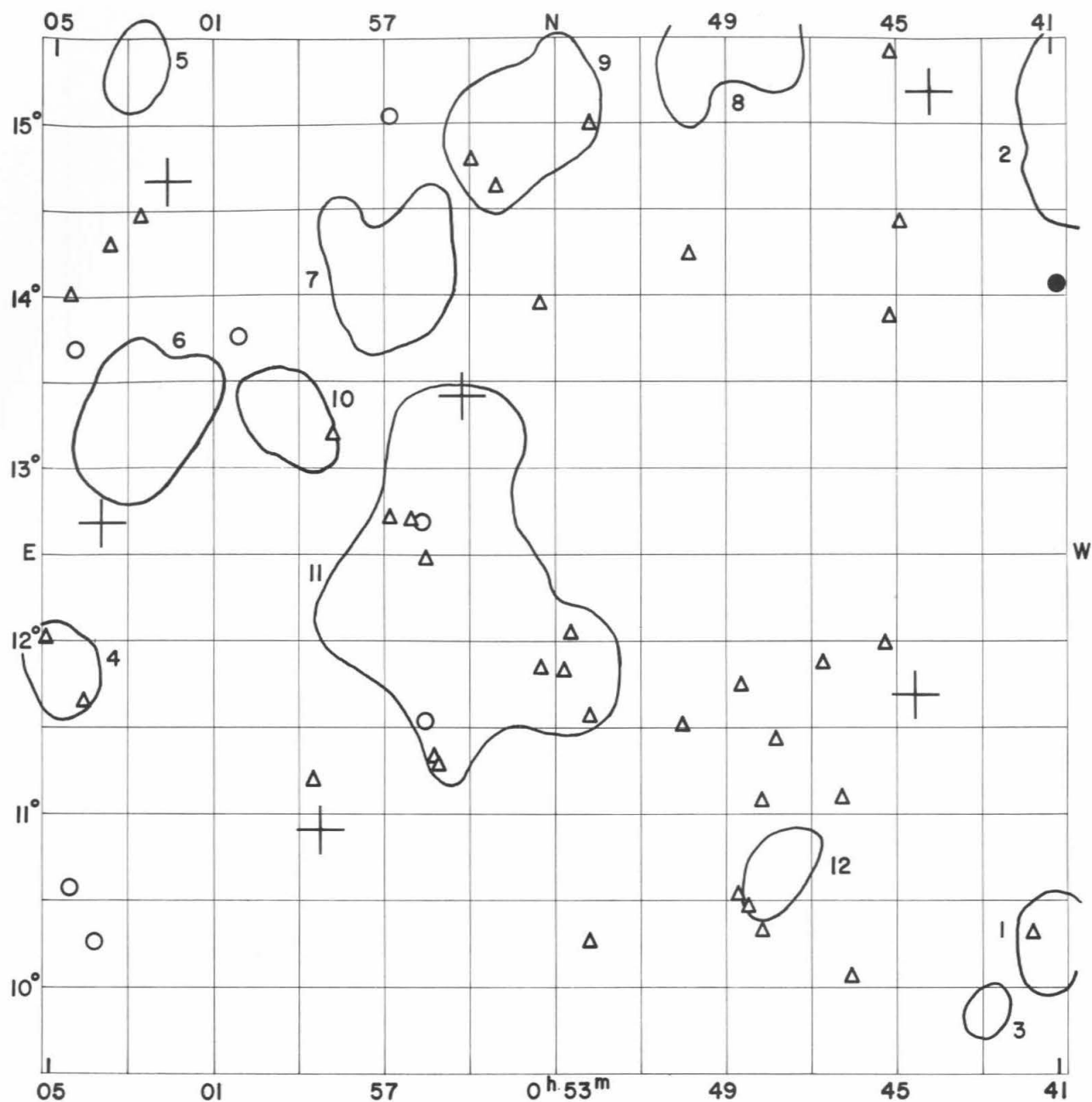
Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
0	05.3	+	11 43		15.6		compact
0	05.5	+	14 33		15.7		
0	05.9	+	09 56		15.4		compact
0	06.5	+	10 17		15.6		
0	06.5	+	10 37		15.7		
0	07.3	+	15 27		15.7		
0	07.8	+	11 52		15.7		
0	08.2	+	14 33		15.7		
0	09.0	+	13 14		15.7		
0	09.6	+	11 46		15.4		
0	10.4	+	14 08		14.2		
0	11.2	+	14 20		15.7		
0	11.4	+	12 42		15.3		
0	12.0	+	10 30		15.7		
0	12.5	+	14 48		15.7		
0	13.3	+	13 47		15.6		
0	13.6	+	10 03		14.7		
0	14.2	+	12 04		15.3		very diffuse system
0	15.1	+	11 10	63	12.6		
0	16.2	+	10 20	7*	14.7		
0	16.5	+	15 28		15.3		





MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951	Pettit 1954	Humason, Mayall, Sandage 1956	Holmberg 1958
105	- -	13.89 Sa	- -	- -



FIELD No. 435

$0^h 53^m + 12^\circ 30'$

Survey Plate No. 1274

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
928	0	43	55.7	+	15	12 12	5.58
935	0	44	24.7	+	11	42 05	5.68
1153	0	55	16.8	+	13	25 33	6.44
1225	0	58	36.8	+	10	54 43	8.18
1302	1	02	26.7	+	14	40 39	5.65
1336	1	03	55.5	+	12	41 19	6.22

CLUSTERS OF GALAXIES

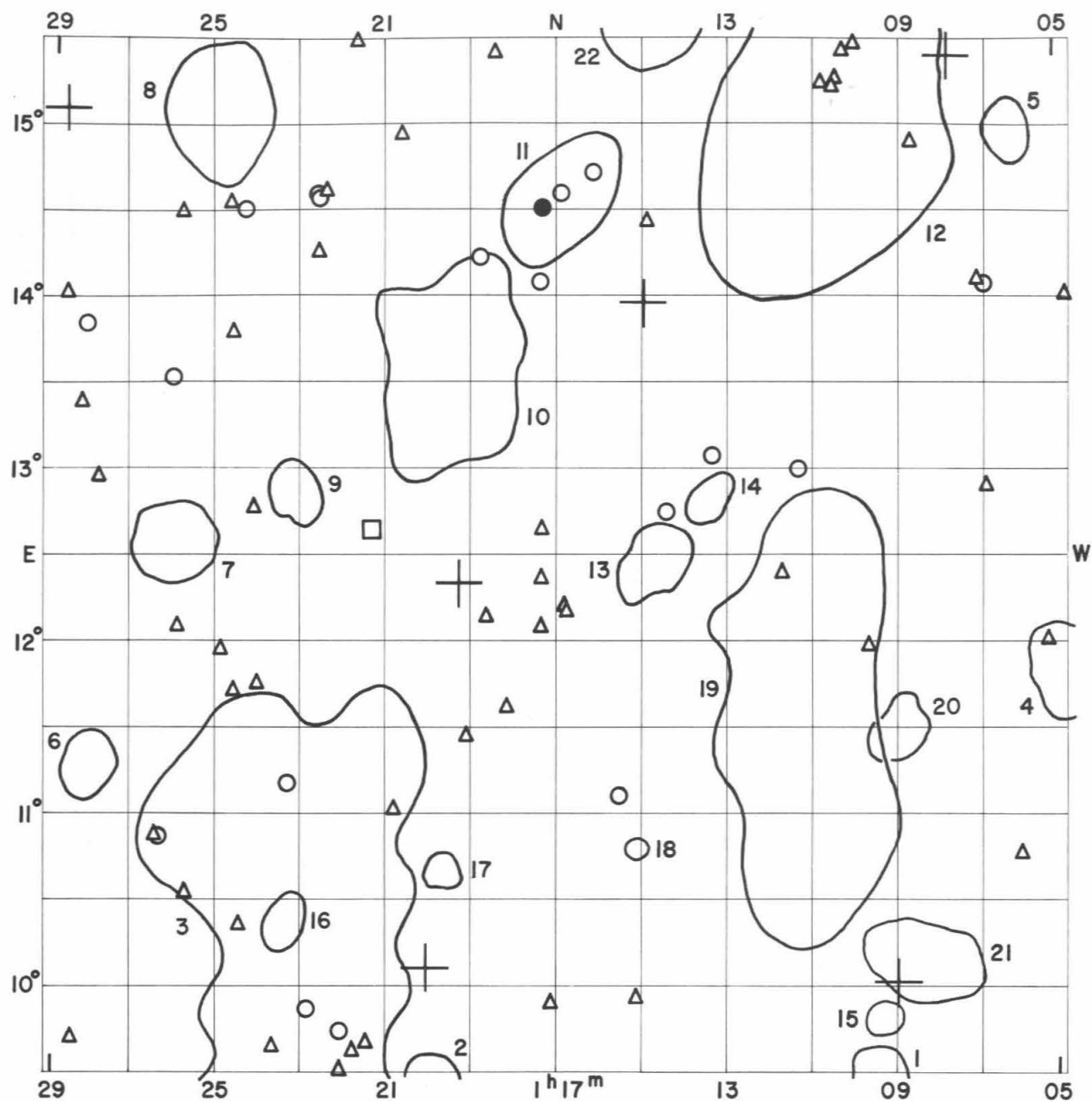
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0039.6 + 1458	open	119	6.1	D	2
0041.1 + 1016	compact	117	2.7	ED	1
0042.7 + 0951	compact	54	1.4	ED	3
0047.6 + 1040	open	83	2.6	VD	12
0048.5 + 1540	medium compact	106	5.3	MD	8
0053.8 + 1459	open	85	4.9	VD	9
0055.0 + 1212	open	107	9.2	Near	11
0056.9 + 1408	medium compact	78	4.5	VD	7
0059.3 + 1317	medium compact	130	3.1	ED	10
0102.8 + 1316	medium compact	59	4.6	VD	6
0103.0 + 1519	medium compact	84	2.4	ED	5
0104.7 + 1149	open	121	2.7	ED	4

Average number of galaxies per cluster = 95.3

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
0	40.9	+14 04	234	13.5		
0	41.6	+10 18		15.7		
0	44.7	+14 26		15.2		
0	44.8	+15 25		15.5		
0	45.0	+13 52		15.5		
0	45.2	+12 00		15.5		
0	46.0	+10 04		15.6		compact
0	46.2	+11 06		15.6		
0	46.6	+11 52		15.7		compact
0	47.8	+11 27		15.7		
0	48.1	+10 20	53*	15.5		
0	48.1	+11 05		15.7		compact
0	48.4	+10 28		15.5		
0	48.6	+11 45		15.4		
0	48.7	+10 32		15.7		
0	49.8	+14 15		15.4		
0	50.0	+11 32		15.6		
0	52.2	+10 16		15.7		
0	52.2	+11 34	57*	15.7		
0	52.2	+15 01		15.7		
0	52.6	+12 04		15.3		
0	52.8	+11 50		15.4		
0	53.4	+11 50		15.4		
0	53.4	+13 57		15.6		
0	54.5	+14 38		15.7		
0	55.0	+14 48		15.5		
0	55.8	+11 18		15.5		double system
0	55.9	+11 20		15.5		
0	56.1	+11 33	62*	15.0		
0	56.1	+12 29		15.4		
0	56.2	+12 43		14.8		
0	56.5	+12 43		15.7		compact
0	57.0	+12 43		15.7		
0	57.0	+15 04		14.2		
0	58.3	+13 12		15.2		
0	58.8	+11 13		15.7		

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
1	00.6	+13	47		14.5		double system
1	03.0	+14	29		15.5		
1	03.7	+14	19		15.4		
1	04.0	+10	16		14.8		
1	04.2	+11	40		15.7		
1	04.5	+13	42	1620*	14.2		double system
1	04.6	+10	35	75*	15.0		
1	04.6	+14	00		15.7		
1	05.1	+12	02		15.7		



FIELD No. 436
 $1^{\text{h}}17^{\text{m}} + 12^{\circ}30'$
 Survey Plate No. 635

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
1411	1	07	32.1	+	15	24 30	6.36
1440	1	08	51.5	+	10	01 36	6.65
1556	1	14	53.7	+	13	58 47	7.36
1644	1	19	19.4	+	12	20 34	7.04
1659	1	20	05.8	+	10	06 35	7.47
1839	1	28	48.2	+	15	05 19	3.72

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0104.7 + 1149	open	121	2.7	ED	4
0106.1 + 1458	compact	73	1.7	ED	5
0108.2 + 1008	medium compact	93	3.1	VD	21
0108.9 + 1128	medium compact	45	1.8	ED	20
0109.2 + 0947	medium compact	55	1.0	ED	15
0109.3 + 0927	medium compact	58	2.0	VD	1
0110.5 + 1515	medium compact	254	10.3	Near	12
0111.0 + 1128	open	103	8.9	MD	19
0113.4 + 1247	medium compact	80	1.4	ED	14
0114.6 + 1227	open	69	2.2	ED	13
0114.8 + 1604	medium compact	126	6.8	MD	22
0115.1 + 1047	compact	43	0.7	ED	18
0116.8 + 1434	medium compact	96	3.7	VD	11
0119.5 + 1334	open	82	5.5	D	10
0119.8 + 0925	medium compact	66	1.8	VD	2
0119.8 + 1039	medium compact	57	1.1	ED	17
0123.0 + 0953	open	167	12.5	Near	3
0123.2 + 1251	compact	58	1.8	ED	9
0123.5 + 1021	medium compact	105	1.4	ED	16
0125.0 + 1505	medium compact	116	3.9	ED	8
0126.1 + 1234	medium compact	106	2.6	VD	7
0128.1 + 1116	medium compact	83	2.0	ED	6

Average number of galaxies per cluster = 93.5

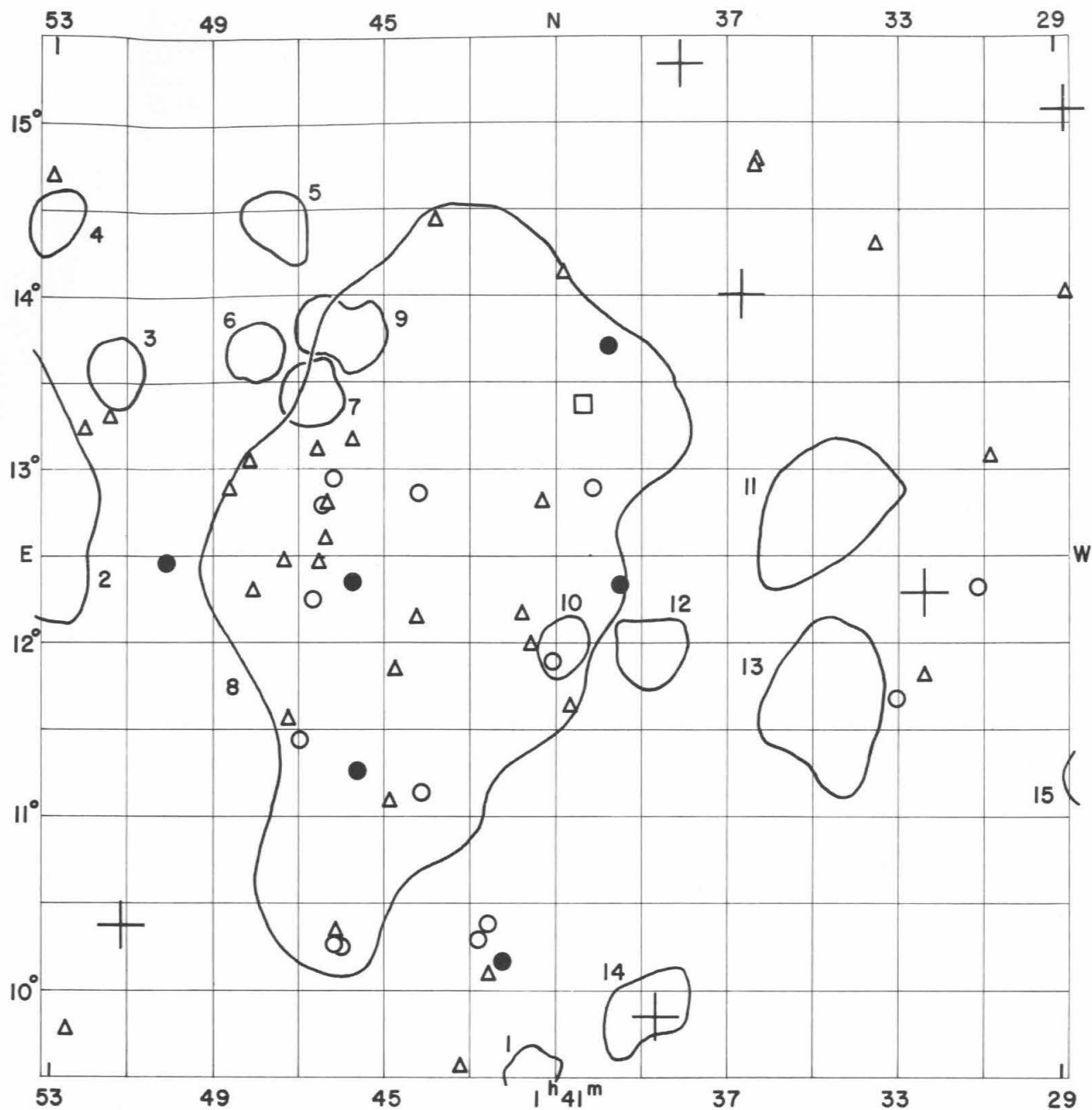
GALAXIES

Position q 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o				
1	04.6	+ 14 00		15.7		
1	05.1	+ 12 02		15.7		
1	05.9	+ 10 46		15.6		
1	06.7	+ 12 55		15.7		
1	06.7	+ 14 05		14.8		
1	06.8	+ 14 06		15.2		
1	08.4	+ 14 55		15.6		
1	09.5	+ 12 00		15.5		
1	09.8	+ 15 29	1645*	15.5		
1	10.1	+ 15 27	1646*	15.3		
1	10.2	+ 15 18		15.7		
1	10.3	+ 15 14		15.7		double galaxy
1	10.6	+ 15 15		15.7		multiple system
1	11.2	+ 13 00		15.0		
1	11.6	+ 12 24		15.6		
1	13.2	+ 13 05		15.0		
1	14.3	+ 12 45		14.9		
1	14.8	+ 14 26		15.4		double system
1	15.1	+ 09 56		15.7		
1	15.5	+ 11 07		14.3		
1	16.1	+ 14 45		14.2		
1	16.7	+ 12 11		15.1		
1	16.7	+ 12 12		15.2		
1	16.8	+ 14 36	469	15.0		
1	17.1	+ 09 54		15.5		
1	17.3	+ 12 05		15.7		double system

Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o				
1	17.3	+12 22		15.7		
1	17.3	+12 40		15.6		diffuse
1	17.3	+14 31	471	14.0		multiple system
1	17.4	+14 06		14.9		
1	18.2	+11 38		15.4		compact
1	18.4	+15 26		15.6		
1	18.6	+12 09		15.7		extremely diffuse
1	18.8	+14 15		15.0		
1	19.1	+11 28		15.1		
1	20.7	+14 57		15.5		
1	20.8	+11 02	511	15.4		
1	21.4	+12 39	514	12.8	+ 2545	$m_H = 12.4$ S
1	21.5	+09 40	101*	15.1		
1	21.8	+09 38	102*	15.6		
1	21.8	+15 30		15.7		
1	22.1	+09 30		15.7		diffuse
1	22.1	+09 44	522	14.2		
1	22.5	+14 37	107*	15.4		
1	22.6	+14 35	1698*	14.9		
1	22.7	+14 16		15.2		
1	22.7	+14 36	1700*	14.3		
1	22.9	+09 52		15.5		double system
1	23.4	+11 11	112*	14.2		
1	23.7	+09 40	114*	15.7		very diffuse
1	24.2	+11 46		15.7		
1	24.2	+12 47		15.6		
1	24.5	+10 22		15.5		
1	24.5	+14 31	1706*	14.2		
1	24.6	+11 44		15.7		
1	24.7	+13 48		15.6		
1	24.8	+14 35		15.4		
1	25.0	+11 58		15.6		multiple system
1	25.8	+10 33		15.7		
1	26.0	+14 30		15.6		double galaxy
1	26.1	+12 05		15.7		compact
1	26.2	+13 31		14.9		
1	26.5	+10 53	569	14.7		
1	26.6	+10 53		15.7		
1	28.0	+12 58		15.6		peculiar
1	28.3	+13 50		14.7		
1	28.4	+13 23		15.6		
1	28.6	+09 41		15.4		
1	28.8	+14 01		15.1		diffuse

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
514	-	-	12.25	Sc	12.3	Sc	-	-



FIELD No. 437

$1^{\text{h}}41^{\text{m}} + 12^{\circ}30'$

Survey Plate Nos. E-14 and O-15

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	o	i	"	
1839	1	28	48.2	+	15	05 19	3.72
1904	1	32	11.9	+	12	18 12	7.02
2000	1	36	34.4	+	14	01 57	6.93
2033	1	38	02.0	+	15	22 01	9.04
2047	1	38	39.7	+	9	51 40	9.2
2299	1	51	18.8	+	10	22 21	7.00

CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0128.1 + 1116	medium compact	83	2.0	ED	15
0134.4 + 1140	open	113	4.5	VD	13
0134.6 + 1246	open	108	4.3	VD	11
0138.7 + 1158	medium compact	93	2.2	ED	12
0138.8 + 0954	medium compact	88	2.5	ED	14
0140.8 + 1200	medium compact	70	1.7	ED	10
0141.6 + 0930	compact	54	1.8	VD	1
0144.0 + 1230	open	135	16.4	Near	8
0146.0 + 1347	medium compact	119	2.4	D	9
0146.8 + 1325	medium compact	54	2.0	ED	7
0147.7 + 1424	compact	73	2.1	ED	5
0148.1 + 1340	medium compact	55	1.9	ED	6
0151.3 + 1334	compact	87	2.0	ED	3
0153.0 + 1426	medium compact	104	1.8	VD	4
0155.0 + 1257	open	96	7.8	MD	2

Average number of galaxies per cluster = 88.8

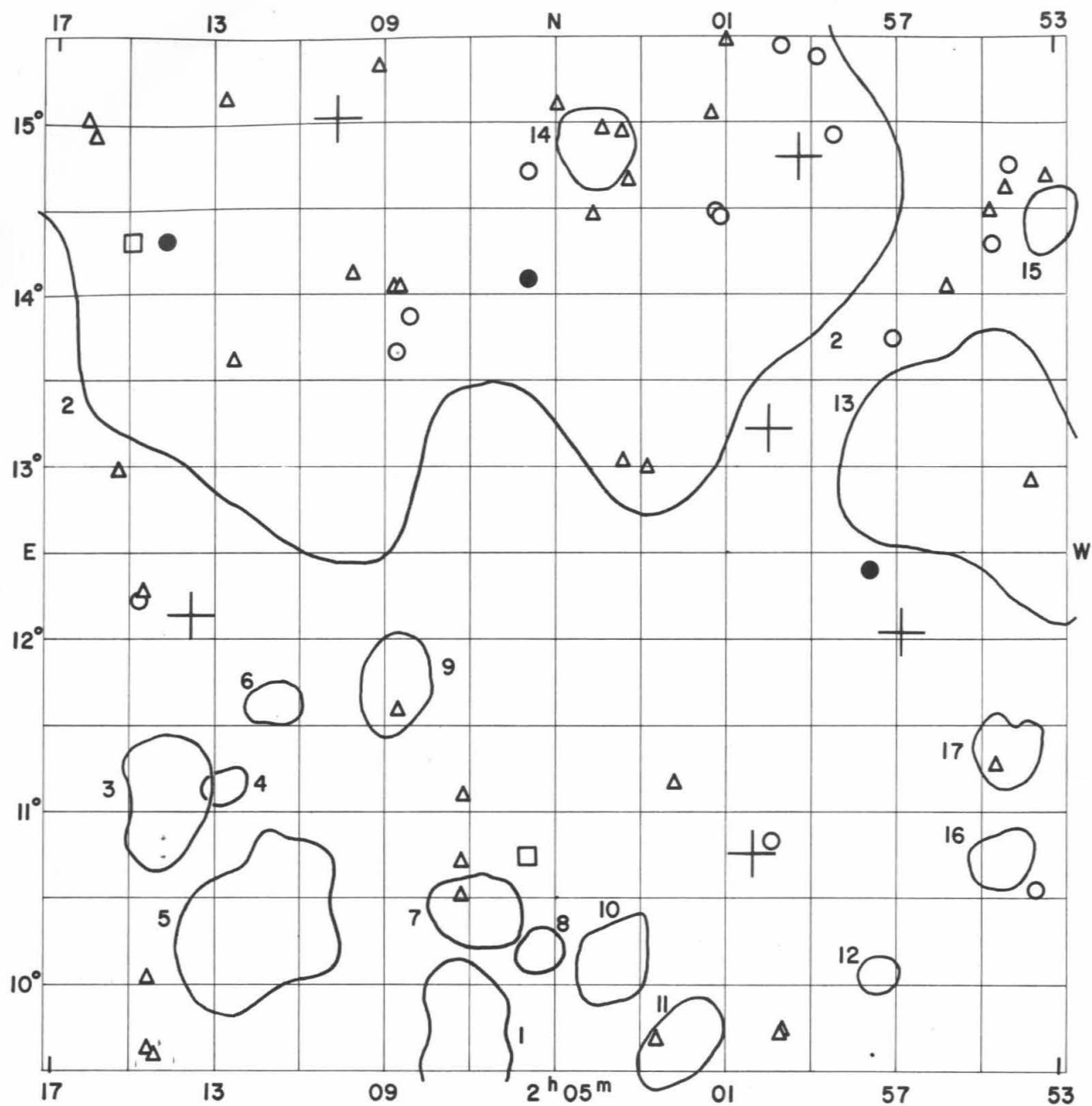
GALAXIES

Position α 1950 δ	NGC IC*	m _P	V _s km/sec	Remarks
h m o				
1 28.8 + 14 01		15.1		diffuse
1 30.7 + 13 05		15.3		diffuse
1 30.9 + 12 19	1715*	14.5		
1 32.2 + 11 50		15.3		compact
1 32.9 + 11 41		15.0		
1 33.3 + 14 19		15.6		compact
1 36.1 + 14 48		15.7		compact
1 36.2 + 14 46		15.5		compact
1 39.5 + 12 20	658	13.6		
1 39.7 + 13 43		13.9		
1 40.1 + 12 54		14.3		
1 40.3 + 13 23	660	12.8		peculiar
1 40.7 + 11 39		15.3		
1 40.8 + 14 08		15.5		
1 41.1 + 11 55		15.0		
1 41.3 + 12 49	152*	15.7		
1 41.6 + 12 00		15.5		
1 41.8 + 12 10		15.2		
1 42.3 + 10 10	665	13.5		
1 42.6 + 10 06		15.5		
1 42.6 + 10 24	154*	14.8		
1 42.8 + 10 18	156*	15.0		
1 43.3 + 09 34		15.5		
1 43.9 + 14 26		15.7		
1 44.2 + 11 10		15.0		compact nucleus
1 44.3 + 12 10		15.1		
1 44.3 + 12 52	671	14.3		
1 44.8 + 11 52		15.5		
1 45.0 + 11 06		15.7		diffuse
1 45.7 + 11 17	673	13.3		
1 45.8 + 12 21		14.0		
1 45.8 + 13 10		15.5		
1 46.1 + 10 15	162*	14.2		

Position			NGC IC*	m _p	V _s km/sec	Remarks
α 1950	δ					
h m	° ' "					
1 46.2	+ 10 16			14.8		
1 46.2	+ 10 20			15.3		
1 46.3	+ 12 57			14.6		
1 46.4	+ 12 48		675	15.5		
1 46.5	+ 12 36			15.2		
1 46.5	+ 12 48		677	14.3		
1 46.6	+ 12 28			15.7		
1 46.7	+ 13 07			15.3		
1 46.8	+ 12 15			14.2		
1 47.1	+ 11 27		683	14.8		
1 47.3	+ 11 34			15.1		
1 47.5	+ 12 28			15.7		
1 48.2	+ 12 18			15.2		
1 48.3	+ 13 03			15.1		
1 48.7	+ 12 53			15.5		diffuse
1 50.2	+ 12 28		1743*	14.0		
1 51.6	+ 13 17			15.6		
1 52.2	+ 13 14			15.7		double system
1 52.5	+ 09 46			15.5		
1 53.1	+ 14 42			15.2		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951	Pettit 1954	Humason, Mayall, Sandage 1956	Holmberg 1958
660	-	-	-	11.85 Sp



FIELD No. 438

$2^{\text{h}}05^{\text{m}} + 12^{\circ}30'$

Survey Plate No. 209

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
2395	1	56	45.0	+	12	03 11	6.14
2447	1	59	07.7	+	14	49 35	6.80
2456	1	59	53.4	+	13	14 11	6.28
2465	2	00	17.3	+	10	46 43	6.83
2655	2	10	19.4	+	15	02 47	5.99
2728	2	13	45.1	+	12	09 05	8.0

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0153.0 + 1426	medium compact	104	1.8	VD	15
0154.1 + 1120	open	90	2.1	ED	17
0154.3 + 1043	medium compact	72	1.8	ED	16
0155.0 + 1257	open	96	7.8	MD	13
0157.3 + 1003	medium compact	55	1.2	ED	12
0202.0 + 0940	medium compact	67	2.3	VD	11
0203.6 + 1008	medium compact	146	2.3	ED	10
0204.0 + 1452	open	137	2.4	ED	14
0205.3 + 1012	compact	71	1.5	ED	8
0206.8 + 1025	medium compact	82	2.7	VD	7
0207.1 + 0940	open	138	3.6	VD	1
0208.0 + 1515	open	430	27.0	Near	2
0208.8 + 1145	compact	99	2.7	ED	9
0211.7 + 1138	medium compact	55	1.5	ED	6
0212.0 + 1020	medium compact	146	5.3	VD	5
0212.8 + 1109	compact	53	1.2	ED	4
0214.2 + 1106	compact	79	3.5	ED	3

Average number of galaxies per cluster = 112.9

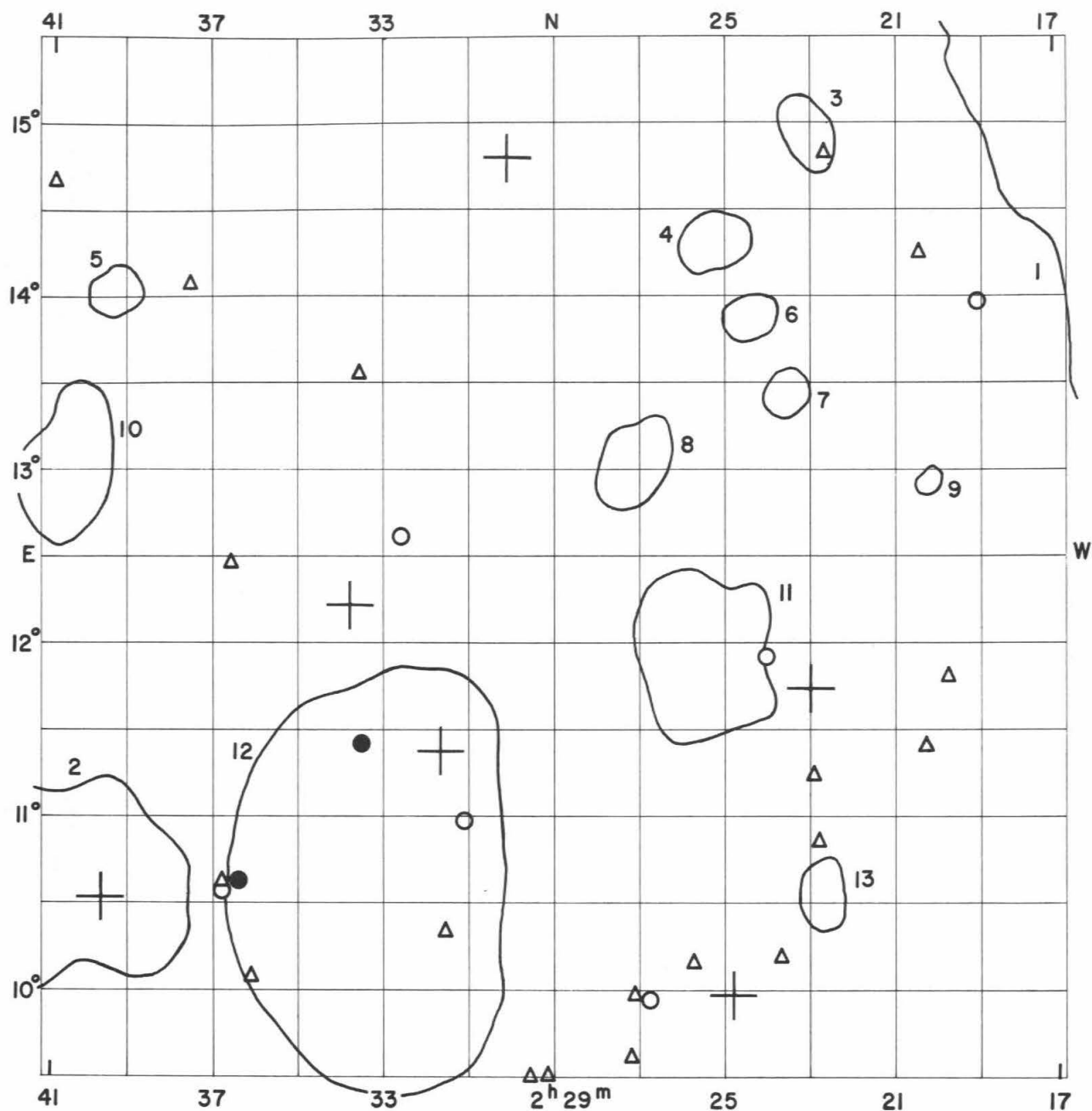
GALAXIES

Position α 1950 δ				NGC IC*	m _p	V _s km/sec	Remarks
h	m	o	'				
1	53.1	+14	42		15.2		
1	53.5	+10	33		15.0		
1	53.6	+12	55		15.7		
1	54.0	+14	46		14.9		
1	54.2	+14	38		15.6		
1	54.5	+11	17		15.7		
1	54.5	+14	19	1755*	14.8		
1	54.5	+14	30		15.7		compact
1	55.6	+14	03		15.6		
1	56.9	+13	46	774	14.4		
1	57.5	+12	24	781	14.0		
1	58.2	+14	56		14.6		
1	58.6	+15	24	786	14.3		
1	59.5	+15	28	792	14.6		
1	59.6	+09	43	1771*	15.4		
1	59.6	+09	44	1770*	15.4		
1	59.8	+10	51	193*	14.7		
2	00.9	+15	30		15.7		
2	01.0	+14	28	195*	14.3		
2	01.1	+14	30	196*	14.2		peculiar
2	01.2	+15	04	1774*	15.2		diffuse
2	02.2	+11	11		15.5		
2	02.6	+09	41		15.2		
2	02.7	+13	00	810	15.4		double system
2	03.2	+14	41		15.6		
2	03.4	+13	02		15.6		
2	03.4	+14	58	1777*	15.7		
2	03.9	+14	59		15.3		double system
2	04.1	+14	29	1780*	15.5		
2	04.9	+15	07		15.7		
2	05.6	+14	06	820	13.7		

Position			NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ				
h	m	o				
2	05.6	+14 44	821	14.3	+1778	$m_H = 12.7$ E
2	05.7	+10 45		12.6		
2	07.2	+10 44		15.4		
2	07.2	+11 07		15.7		
2	07.3	+10 32		15.3		
2	08.5	+13 53		14.8		
2	08.8	+11 36		15.7		
2	08.8	+14 04		15.6		
2	08.9	+13 40		15.0		extremely compact
2	09.0	+14 04		15.3		
2	09.3	+15 21		15.2		very diffuse
2	09.9	+14 08		15.2		
2	12.8	+13 38		15.6		
2	13.0	+15 10		15.7		
2	14.4	+14 19	871	13.6	+3757	
2	14.6	+09 35		15.4		
2	14.7	+09 38		15.4		
2	14.7	+10 02		15.7		
2	14.9	+12 17	1790*	15.7	+4016	$m_H = 12.4$ S
2	15.0	+12 15	1791*	14.6		
2	15.2	+14 19	877	12.5		
2	15.5	+12 58		15.3		
2	16.1	+14 56		15.7		
2	16.3	+15 02		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
821	-	-	12.02	E6	12.0	E6	-	-
871	-	-	14.13	Sc	14.1	Sc	-	-
877	-	-	12.59	Sc	12.4	Sc	-	-



FIELD No. 439
 $2^{\text{h}}29^{\text{m}} + 12^{\circ}30'$
 Survey Plate No. 1300

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
2918	2	22	52.4	+	11	45 00	7.52
2946	2	24	43.6	+	9	58 39	6.54
3055	2	30	09.6	+	14	48 52	6.07
3085	2	31	43.6	+	11	23 11	7.00
3133	2	33	54.0	+	12	13 55	5.68
3260	2	39	47.2	+	10	31 47	6.27

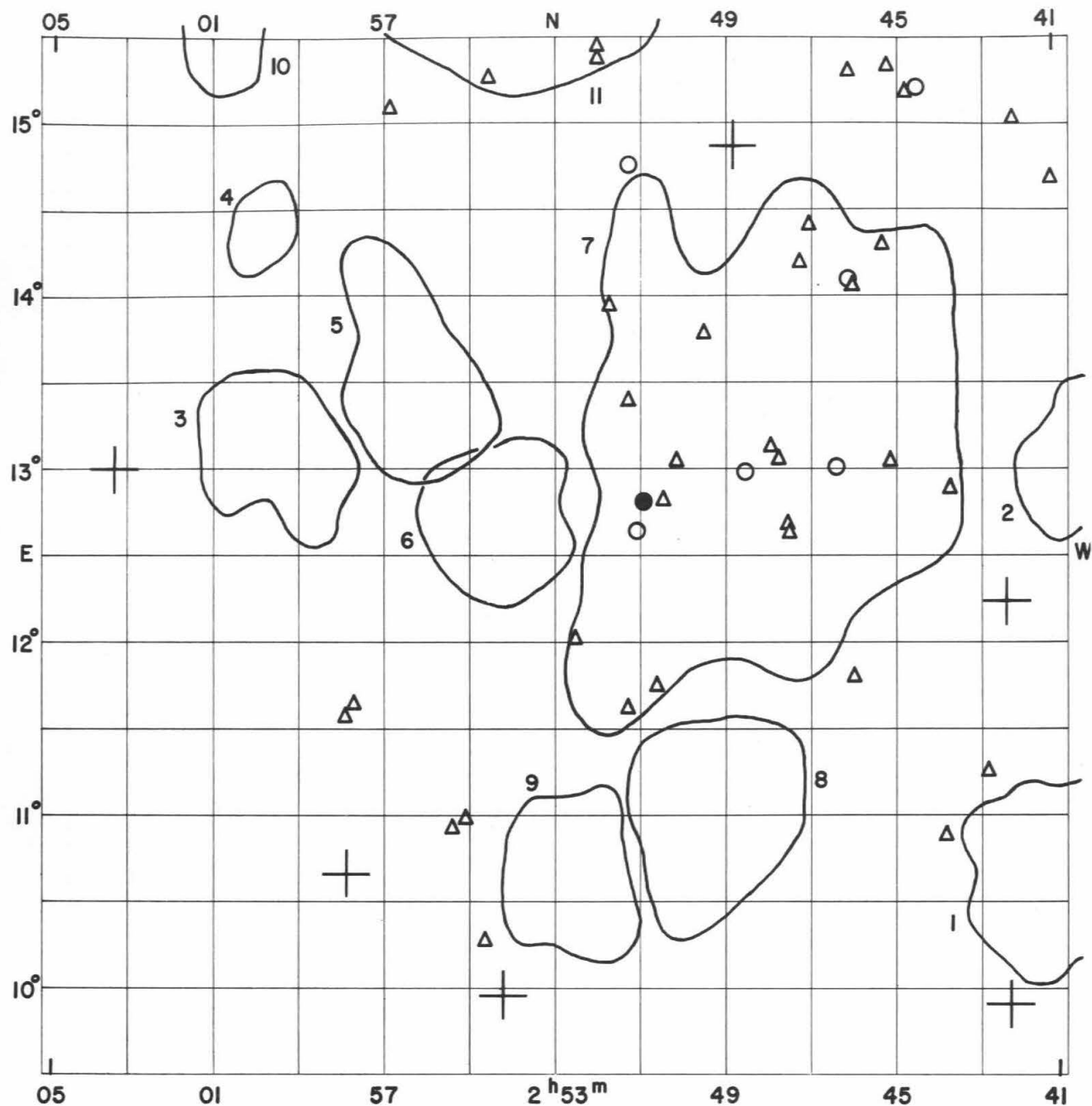
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0208.0 + 1515	open	430	27.0	Near	1
0220.0 + 1255	compact	45	0.8	ED	9
0222.6 + 1033	medium compact	65	1.7	ED	13
0222.9 + 1457	medium compact	56	1.9	ED	3
0223.4 + 1326	medium compact	61	1.4	ED	7
0224.2 + 1352	medium compact	90	1.5	ED	6
0225.1 + 1419	medium compact	80	2.0	ED	4
0225.4 + 1157	open	80	4.9	VD	11
0227.1 + 1301	medium compact	93	2.5	D	8
0233.2 + 1035	open	142	11.0	MD	12
0239.4 + 1402	medium compact	120	1.5	ED	5
0240.5 + 1037	open	122	3.6	D	2
0240.7 + 1259	open	74	3.8	VD	10

Average number of galaxies per cluster = 112.2

GALAXIES

Position a 1950 δ h m o	NGC IC*	m_p	V_s km/sec	Remarks
2 18.8 + 13 59		14.8		
2 19.6 + 11 49		15.3		double system
2 20.1 + 11 25	222*	15.2		
2 20.2 + 14 15		15.7		
2 22.5 + 14 50		15.6		
2 22.7 + 10 52		15.6		diffuse
2 22.8 + 11 15		15.7		diffuse
2 23.6 + 10 11		15.5		
2 23.9 + 11 56	927	14.5		
2 25.7 + 10 10		15.1		
2 26.7 + 09 57		14.9		
2 27.1 + 09 59		15.5		
2 27.2 + 09 38		15.7		
2 29.2 + 09 31		15.4		
2 29.5 + 09 30		15.3		
2 31.2 + 11 00	1817*	14.9		double system
2 31.6 + 10 20		15.4		
2 32.6 + 12 36	238*	14.1		
2 33.6 + 11 26	990	13.9		
2 33.7 + 13 33	1821*	15.4		
2 36.2 + 10 05		15.5		
2 36.5 + 10 38	1024	13.8		
2 36.7 + 12 28		15.7		
2 36.9 + 10 35	1029	14.1		
2 36.9 + 10 38	1028	15.3		
2 37.8 + 14 05		15.7		compact
2 41.1 + 14 41	1835*	15.7		multiple system



FIELD No. 440

$2^{\text{h}}53^{\text{m}} + 12^{\circ}30'$

Survey Plate Nos. E-15 and O-16

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
3308	2	42	13.9	+	12	14 11	5.16
3309	2	42	14.1	+	9	54 15	4.36
3427	2	48	43.7	+	14	52 38	5.46
3545	2	54	18.8	+	9	57 45	7.97
3616	2	58	01.2	+	10	40 24	6.20
3712	3	03	38.7	+	12	59 44	5.84

CLUSTERS OF GALAXIES

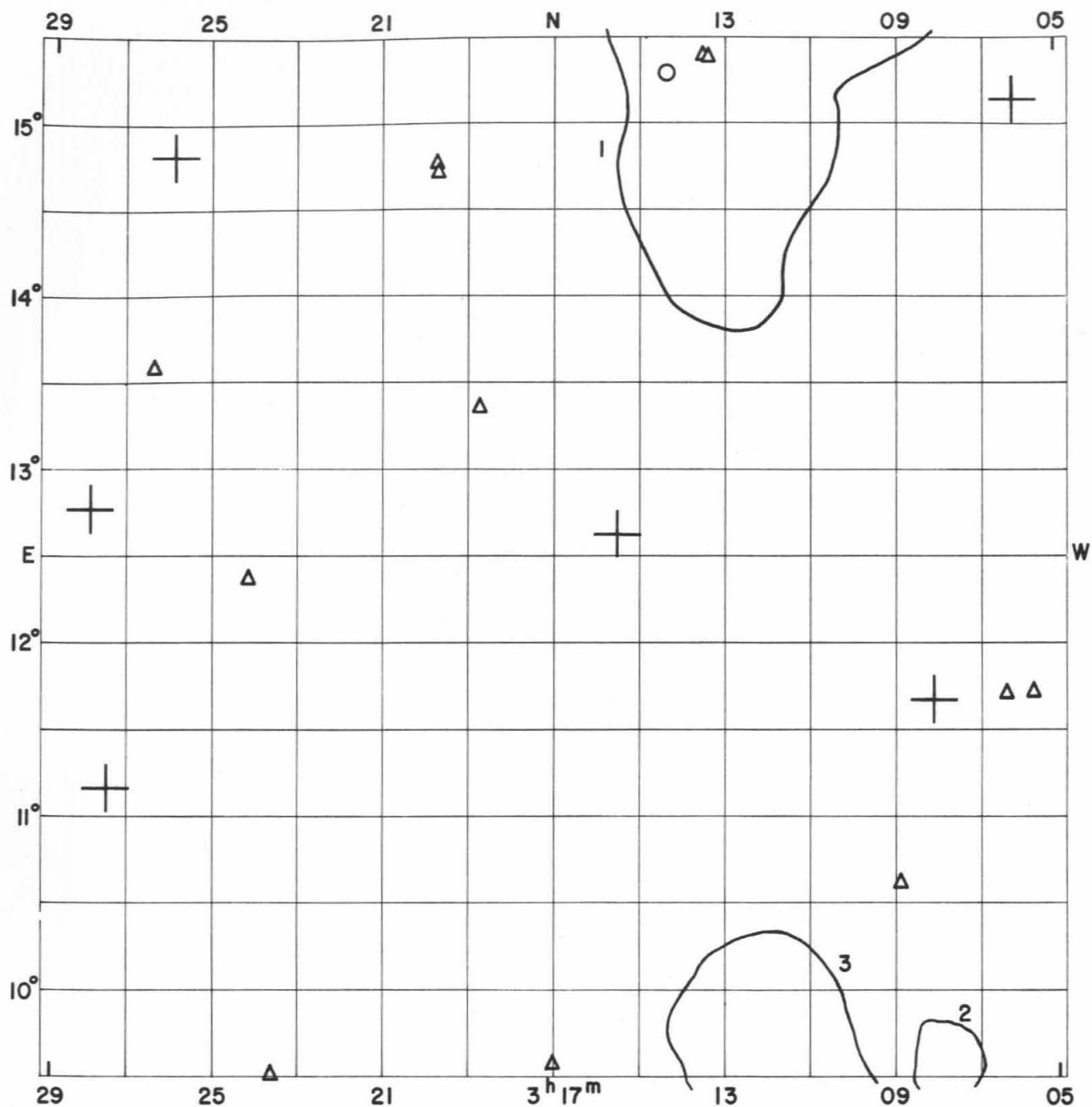
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0240.5 + 1037	open	122	3.6	D	1
0240.7 + 1259	open	74	3.8	VD	2
0248.0 + 1307	medium compact	223	13.8	Near	7
0249.2 + 1058	open	93	6.1	D	8
0252.6 + 1038	medium compact	110	4.9	MD	9
0254.4 + 1240	compact	212	5.0	D	6
0254.7 + 1606	medium compact	183	10.5	Near	11
0256.2 + 1327	compact	262	5.4	D	5
0259.6 + 1303	medium compact	89	5.0	VD	3
0300.0 + 1422	medium compact	76	2.5	VD	4
0300.9 + 1533	open	109	3.5	MD	10

Average number of galaxies per cluster = 141.2

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
2	41.1	+ 14	41	1835*	15.7		multiple system
2	42.0	+ 15	02	1839*	15.3		
2	42.7	+ 11	15	1842*	15.7		
2	43.6	+ 12	53		15.2		
2	43.7	+ 10	53		15.4		
2	44.2	+ 15	13		14.8		compact
2	44.5	+ 15	11		15.6		
2	45.0	+ 13	03	1846*	15.4		compact
2	45.0	+ 15	20		15.6		
2	45.1	+ 14	18	1847*	15.7		
2	45.8	+ 11	48		15.5		double galaxy
2	45.8	+ 14	03		15.5		
2	45.9	+ 14	06		14.8		
2	45.9	+ 15	19		15.7		
2	46.3	+ 13	01	1852*	14.9		
2	46.9	+ 14	25	1857*	15.1		
2	47.1	+ 14	12		15.7		
2	47.4	+ 12	38		15.4		compact
2	47.4	+ 12	40		15.2		double system, plume
2	47.7	+ 13	03	1115	15.6		
2	47.8	+ 13	07	1116	15.4		
2	48.5	+ 12	59		14.9		triple system
2	49.4	+ 13	47		15.2		
2	50.1	+ 13	03	1127	15.7		diffuse
2	50.4	+ 12	50		15.5		
2	50.6	+ 11	45		15.7		
2	50.9	+ 12	48	1134	13.2		peculiar
2	51.1	+ 12	38	267*	14.1		
2	51.2	+ 13	24		15.7		compact
2	51.2	+ 14	46		14.6		peculiar double system
2	51.3	+ 11	37		15.7		double system
2	51.7	+ 13	57		15.5		double system
2	52.0	+ 15	23		15.7		compact
2	52.0	+ 15	27		15.7		
2	52.5	+ 12	01		15.7		diffuse
2	54.6	+ 15	16		15.6		
2	54.7	+ 10	17		15.3		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ					
h	m	o	'				
2	55.2	+ 10	59		15.4		very diffuse
2	55.5	+ 10	55		15.4		
2	57.0	+ 15	05		15.6		
2	57.8	+ 11	39	1166	15.4		
2	58.0	+ 11	35	1168	15.4		



FIELD No. 441
 $3^{\text{h}}17^{\text{m}} + 12^{\circ}30'$
 Survey Plate Nos. E-11 and O-12

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
3750	3	05	57.0	+	15	08 49	8.14
3789	3	07	54.7	+	11	41 03	5.91
3941	3	15	29.9	+	12	38 32	7.64
4147	3	26	10.8	+	14	49 30	7.32
4173	3	27	40.3	+	11	09 59	5.12
4184	3	28	06.5	+	12	46 00	4.28

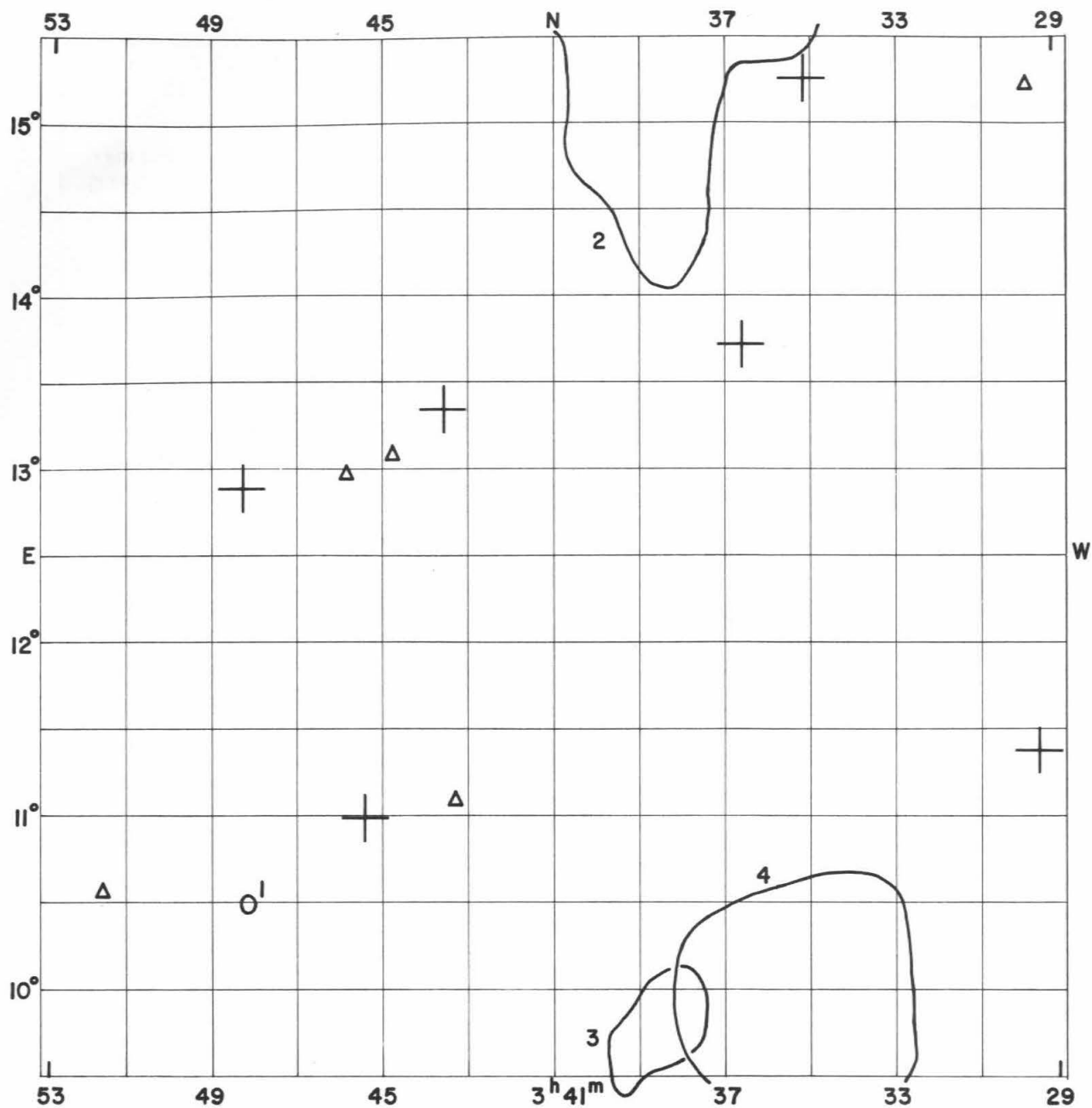
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0307.7 + 0934	medium compact	65	2.2	D	2
0311.8 + 0940	open	83	6.5	MD	3
0312.2 + 1551	open	204	14.0	Near	1

Average number of galaxies per cluster = 117.3

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
3	05.6	+11 43		15.5		
3	06.2	+11 43		15.7		diffuse
3	08.8	+10 37	1236	15.7		
3	13.3	+15 25		15.7		
3	13.4	+15 25		15.6		
3	14.3	+15 18		14.7		
3	17.0	+09 34		15.3		
3	18.8	+13 22		15.7		double system
3	19.8	+14 44		15.7		
3	19.8	+14 47		15.7		compact
3	23.7	+09 30		15.7		double system
3	24.3	+12 22		15.7		
3	26.6	+13 35		15.5		



FIELD No. 442

$3^{\text{h}}41^{\text{m}} + 12^{\circ}30'$

Survey Plate No. 940

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
4221	3	29	27.4	+	11	22 28	6.68
4324	3	34	59.2	+	15	16 04	6.47
4346	3	36	29.9	+	13	43 52	6.89
4520	3	43	39.2	+	13	21 16	6.80
4568	3	45	31.5	+	10	59 27	5.03
4643	3	48	29.1	+	12	53 48	6.16

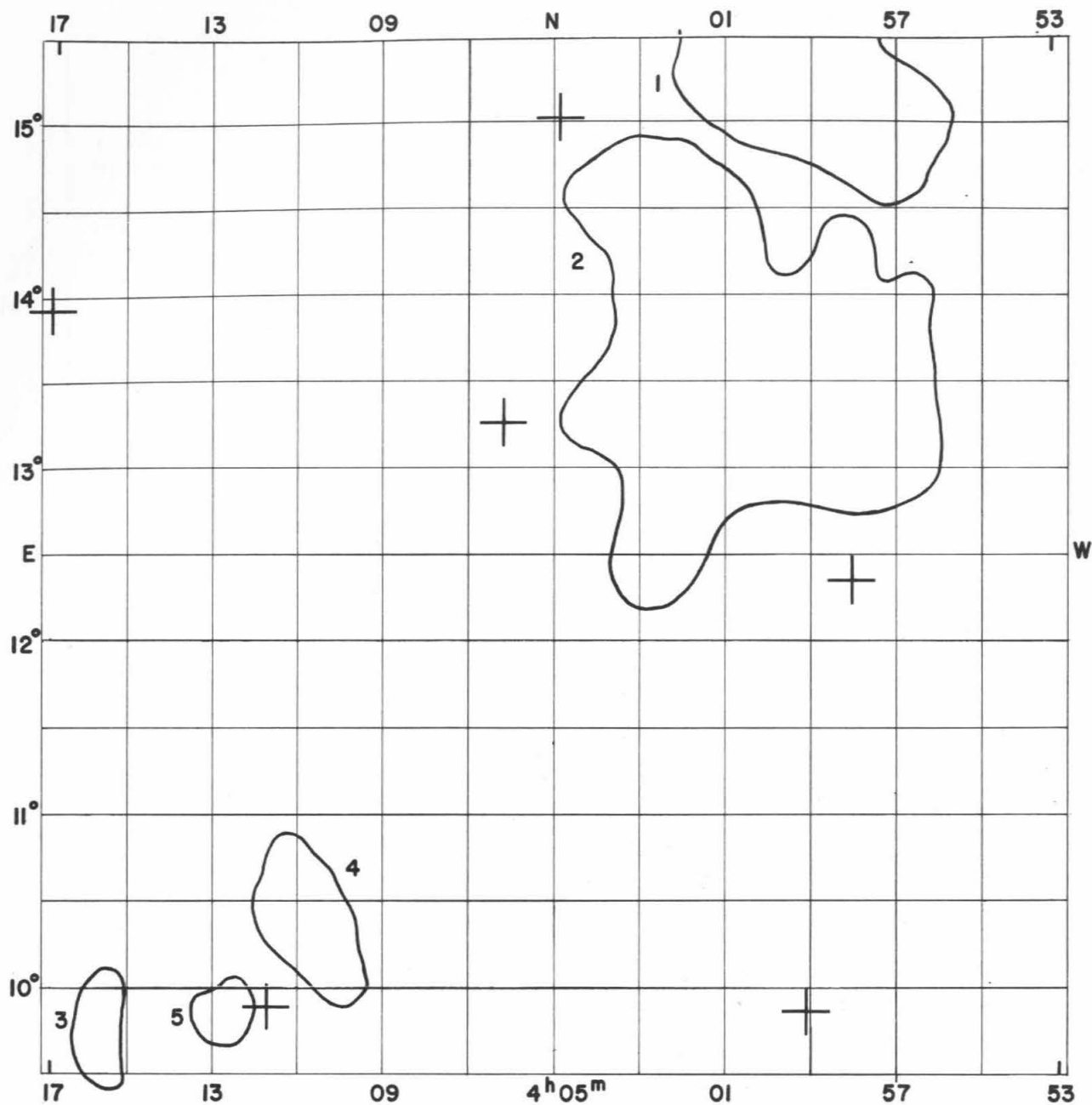
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0335.1 + 0956	medium compact	97	7.8	MD	4
0337.8 + 1536	medium compact	157	10.0	Near	2
0338.5 + 0946	open	55	3.2	VD	3
0348.2 + 1030	compact	37	0.5	VD	1

Average number of galaxies per cluster = 86.5

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
3	29.6	+15 14		15.7		double system
3	43.4	+11 06		15.7		
3	44.8	+13 05		15.6		
3	46.0	+12 58		15.5		
3	51.7	+10 34	2002*	15.1		



FIELD No. 443

$4^{\text{h}}05^{\text{m}} + 12^{\circ}30'$

Survey Plate No. 854

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
4805	3	57	54.4	+	12	21 02	Var.
4830	3	59	02.3	+	9	51 33	5.68
4964	4	04	52.0	+	15	01 50	5.94
4994	4	06	13.8	+	13	16 02	6.02
5111	4	11	52.1	+	9	53 11	5.15
5234	4	17	08.5	+	13	54 58	5.59

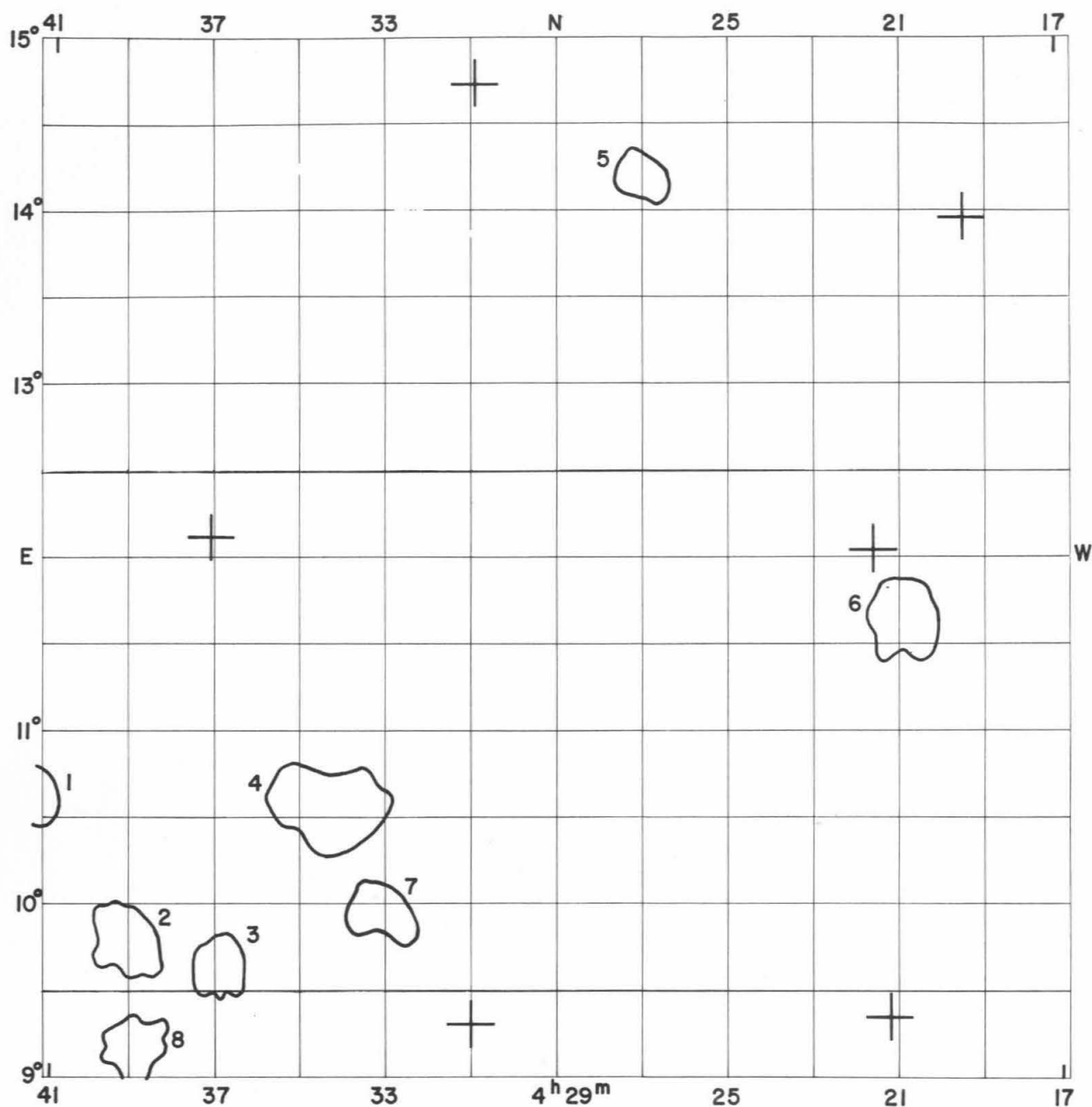
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0358.8 + 1511	open	119	6.8	D	1
0400.5 + 1335	open	132	11.7	Near	2
0410.8 + 1023	compact	130	3.9	VD	4
0412.8 + 0950	medium compact	57	2.0	VD	5
0415.8 + 0944	medium compact	95	2.5	VD	3

Average number of galaxies per cluster = 106.6

GALAXIES

No galaxies in this field



FIELD No. 444

$4^{\text{h}}29^{\text{m}} + 12^{\circ}00'$

Survey Plate No. 1504

GC STARS

Nos.	R. A.			Decl.	m_p
	h	m	s		
5287	4	19	14.3	+ 13 57 38	5.76
5325	4	21	08.1	+ 9 20 46	5.06
5336	4	21	27.6	+ 12 02 38	6.70
5558	4	31	00.5	+ 14 44 27	4.75
5560	4	31	04.2	+ 9 18 36	6.20
5684	4	37	16.2	+ 12 06 04	5.37

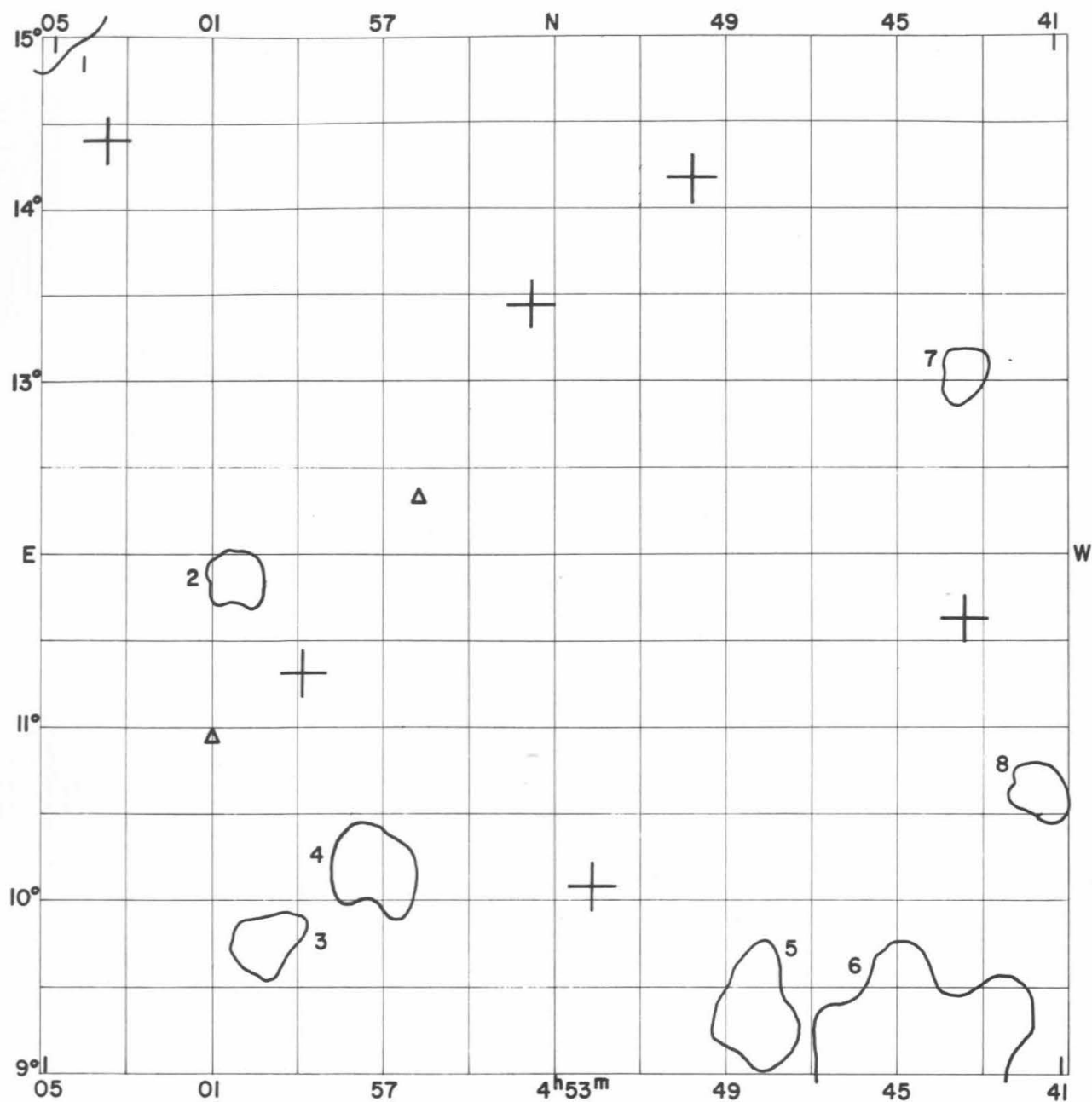
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0420.7 + 1138	medium compact	81	2.2	MD	6
0426.9 + 1410	compact	61	1.5	ED	5
0433.1 + 0955	open	68	1.8	ED	7
0434.3 + 1033	medium compact	136	3.1	ED	4
0436.9 + 0936	compact	80	1.8	ED	3
0439.0 + 0906	medium compact	67	1.9	D	8
0439.1 + 0946	medium compact	122	2.1	ED	2
0441.4 + 1036	medium compact	78	1.8	ED	1

Average number of galaxies per cluster = 86.6

GALAXIES

No galaxies in this field



FIELD No. 445

$4^{\text{h}}53^{\text{m}} + 12^{\circ}00'$

Survey Plate No. 1534

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
5802	4	43	14.7	+	11	36 57	5.43
5942	4	49	42.1	+	14	10 08	5.19
5987	4	52	08.5	+	10	04 22	4.74
6025	4	53	33.5	+	13	26 14	4.28
6139	4	59	00.9	+	11	18 13	6.94
6239	5	03	50.9	+	14	23 00	7.3

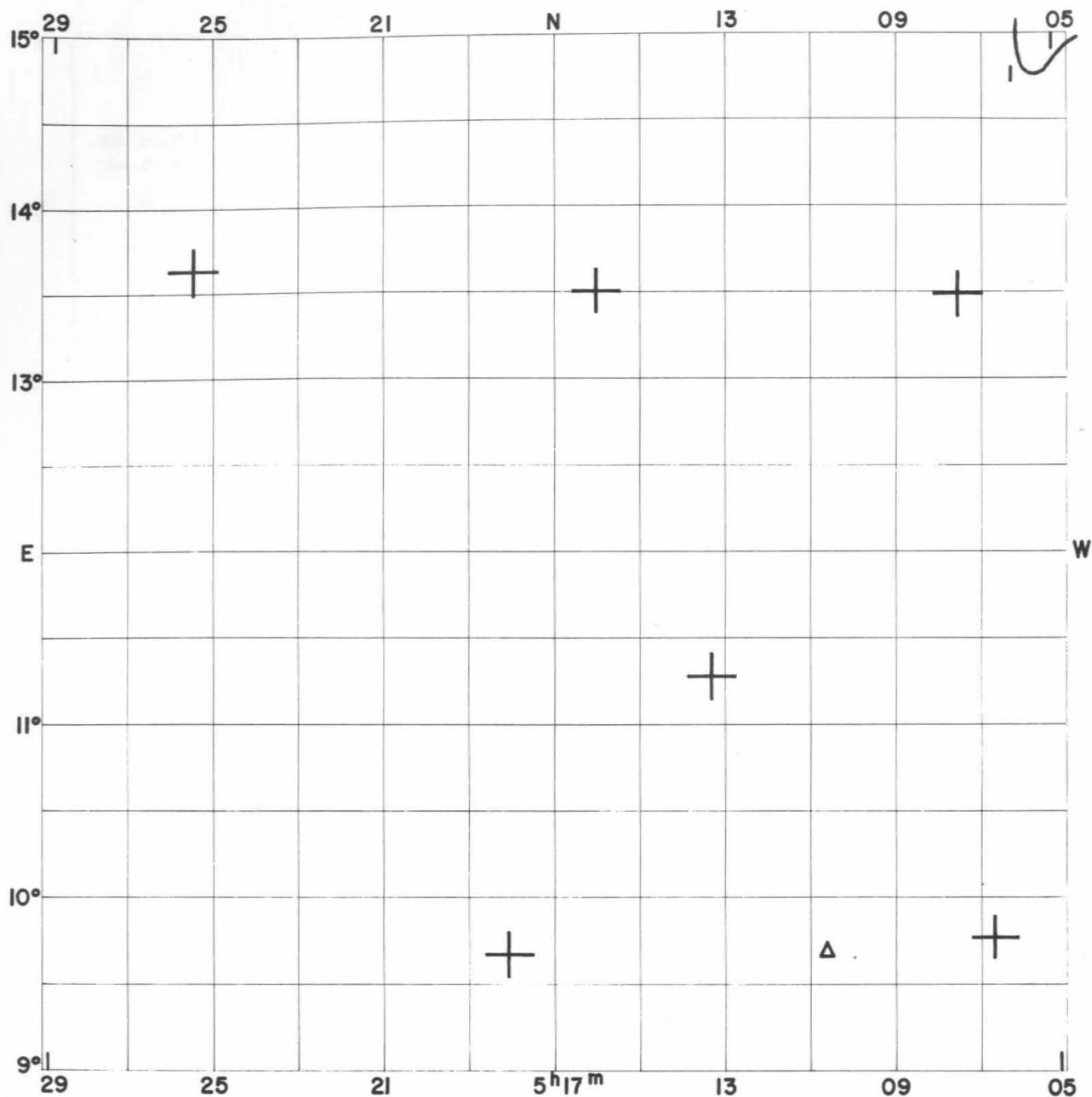
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0441.4 + 1036	medium compact	78	1.8	ED	8
0443.1 + 1302	compact	63	1.5	VD	7
0444.7 + 0828	open	231	10.3	Near	6
0448.2 + 0919	open	95	3.0	D	5
0457.2 + 1010	compact	123	2.8	VD	4
0459.8 + 0943	open	80	2.0	D	3
0500.5 + 1151	compact	82	1.7	VD	2
0505.0 + 1510	medium compact	83	3.2	D	1

Average number of galaxies per cluster = 104.4

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
4	56.2	+12 20		15.7		
5	01.1	+10 57		15.6		



FIELD No. 446
 5^h17^m + 12°00'
 Survey Plate No. 1267

GC STARS

Nos.	R. A.			Decl.			m _p
	h	m	s	°	'	"	
6300	5	06	34.5	+	9	46 01	5.42
6318	5	07	21.3	+	13	29 13	6.73
6436	5	13	17.4	+	11	17 12	5.50
6503	5	16	03.4	+	13	30 57	7.5
6552	5	18	08.3	+	9	40 32	6.52
6753	5	25	45.0	+	13	38 21	6.26

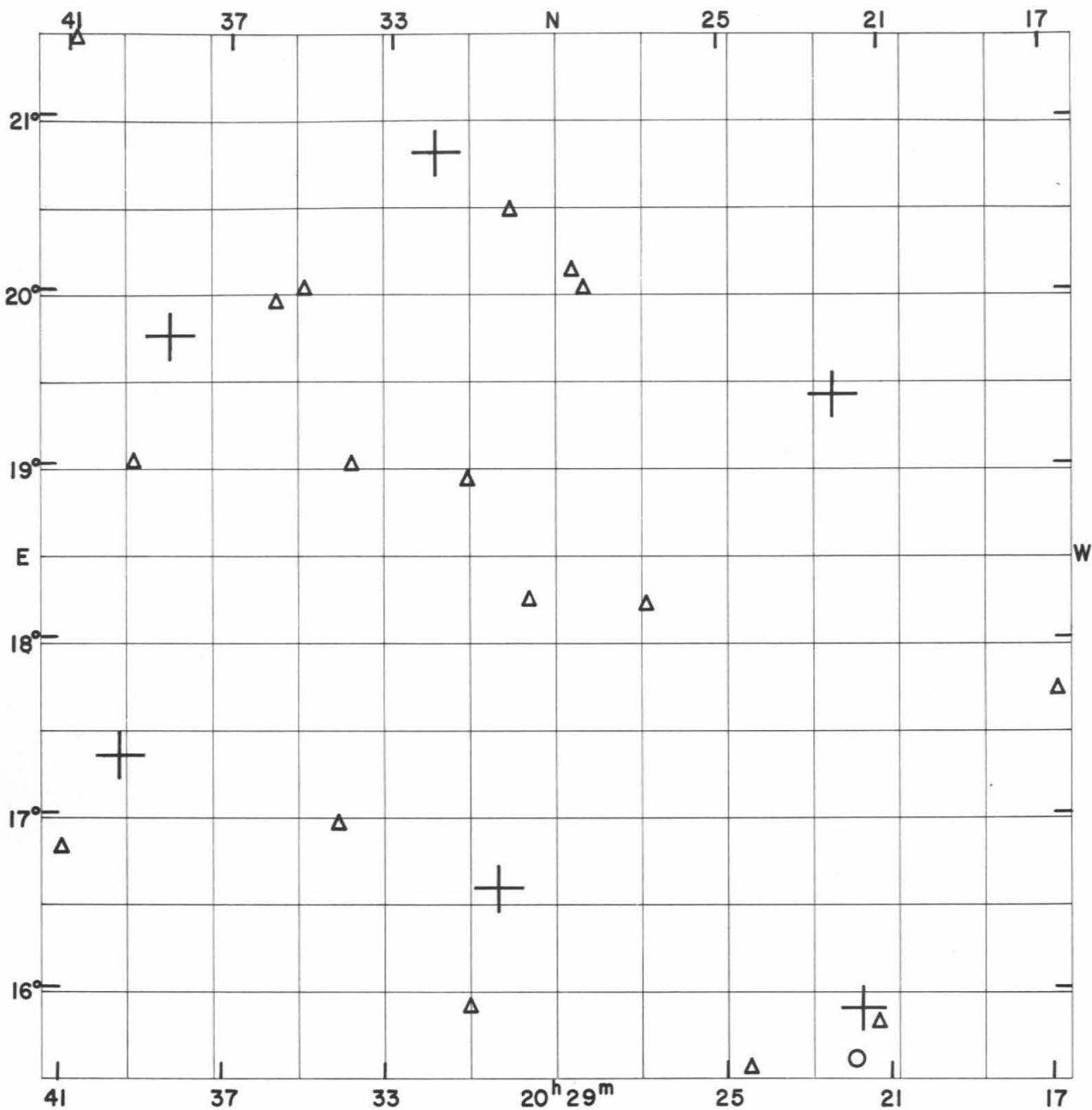
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0505.0 + 1510	medium compact	83	3.2	D	1

Average number of galaxies per cluster = 83.0

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
5	10.6	+09 42	404*		15.7	



FIELD No. 447
 $20^{\text{h}}29^{\text{m}} + 18^{\circ}30'$
 Survey Plate No. 276

GC STARS

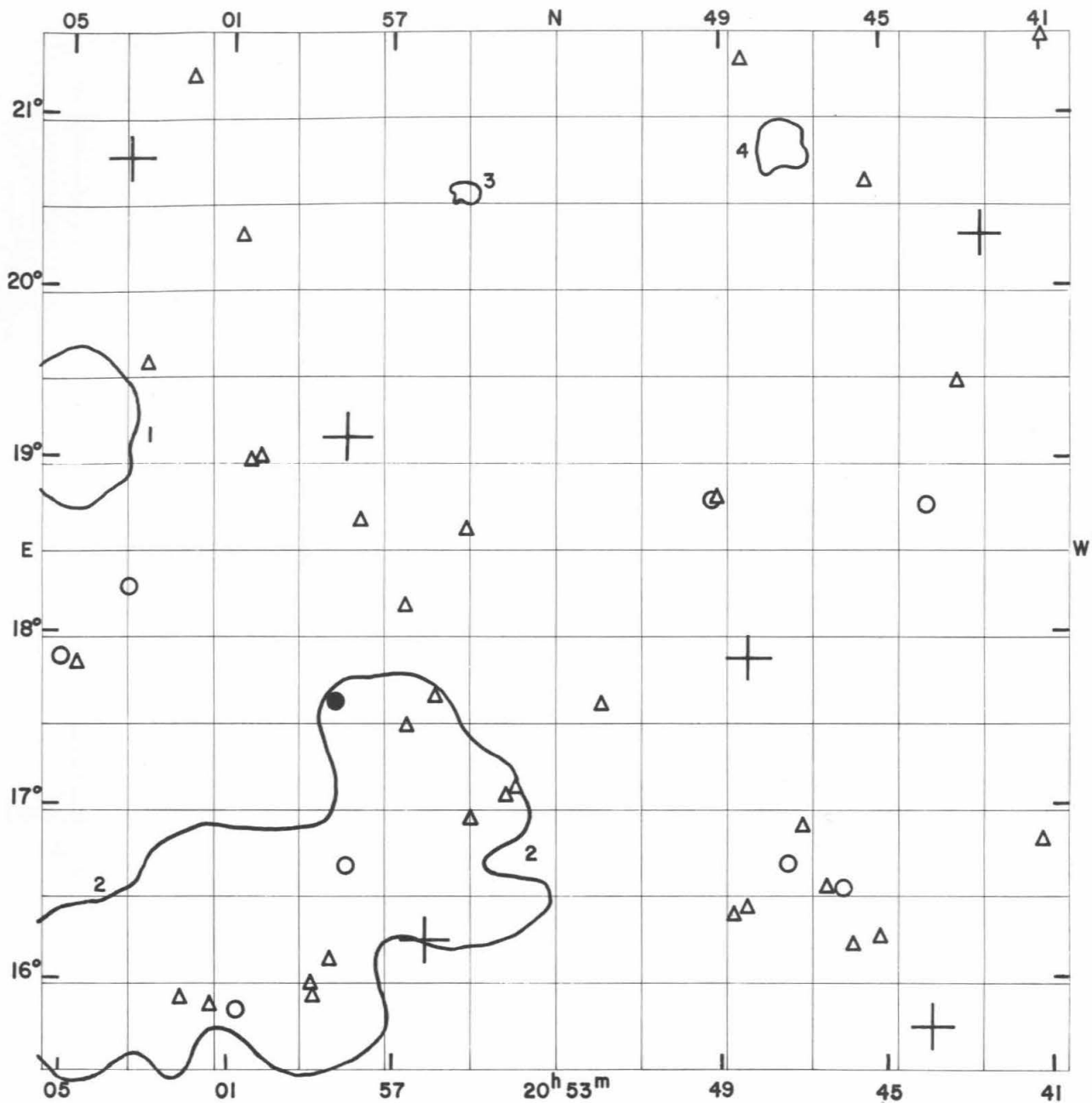
Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
28371	20	21	36.1	+	15	53 04	6.70
28385	20	22	08.0	+	19	24 44	7.4
28585	20	30	25.8	+	16	35 47	6.71
28629	20	31	56.2	+	20	48 46	6.28
28814	20	38	29.4	+	19	45 09	6.40
28843	20	39	40.3	+	17	20 28	6.27

CLUSTERS OF GALAXIES

No clusters in this field

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
20	16.7	+17	42		15.3		double system
20	21.1	+15	47		15.7		
20	21.7	+15	35		15.0		double system
20	24.3	+15	33		15.7		
20	26.7	+18	13		15.6		diffuse
20	28.3	+20	02		15.6		
20	28.6	+20	07		15.6		
20	29.6	+18	15		15.7		compact
20	30.1	+20	28		15.7		
20	31.1	+15	53		15.3		
20	31.1	+18	55		15.4		
20	34.0	+19	01		15.3		
20	34.3	+16	57		15.7		
20	35.1	+20	01		15.7		very compact
20	35.8	+19	56		15.6		very compact
20	39.3	+19	01		15.7		very diffuse
20	41.0	+21	27		15.7		
20	41.1	+16	48		15.3		



FIELD No. 448

$20^{\text{h}}53^{\text{m}} + 18^{\circ}30'$

Survey Plate No. 831

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
28917	20	42	31.8	+	20	18 29	7.07
28953	20	43	53.4	+	15	43 21	7.5
29067	20	48	19.0	+	17	51 48	6.49
29271	20	56	12.4	+	16	14 32	7.17
29329	20	58	10.5	+	19	08 03	5.96
29472	21	03	39.2	+	20	44 45	6.66

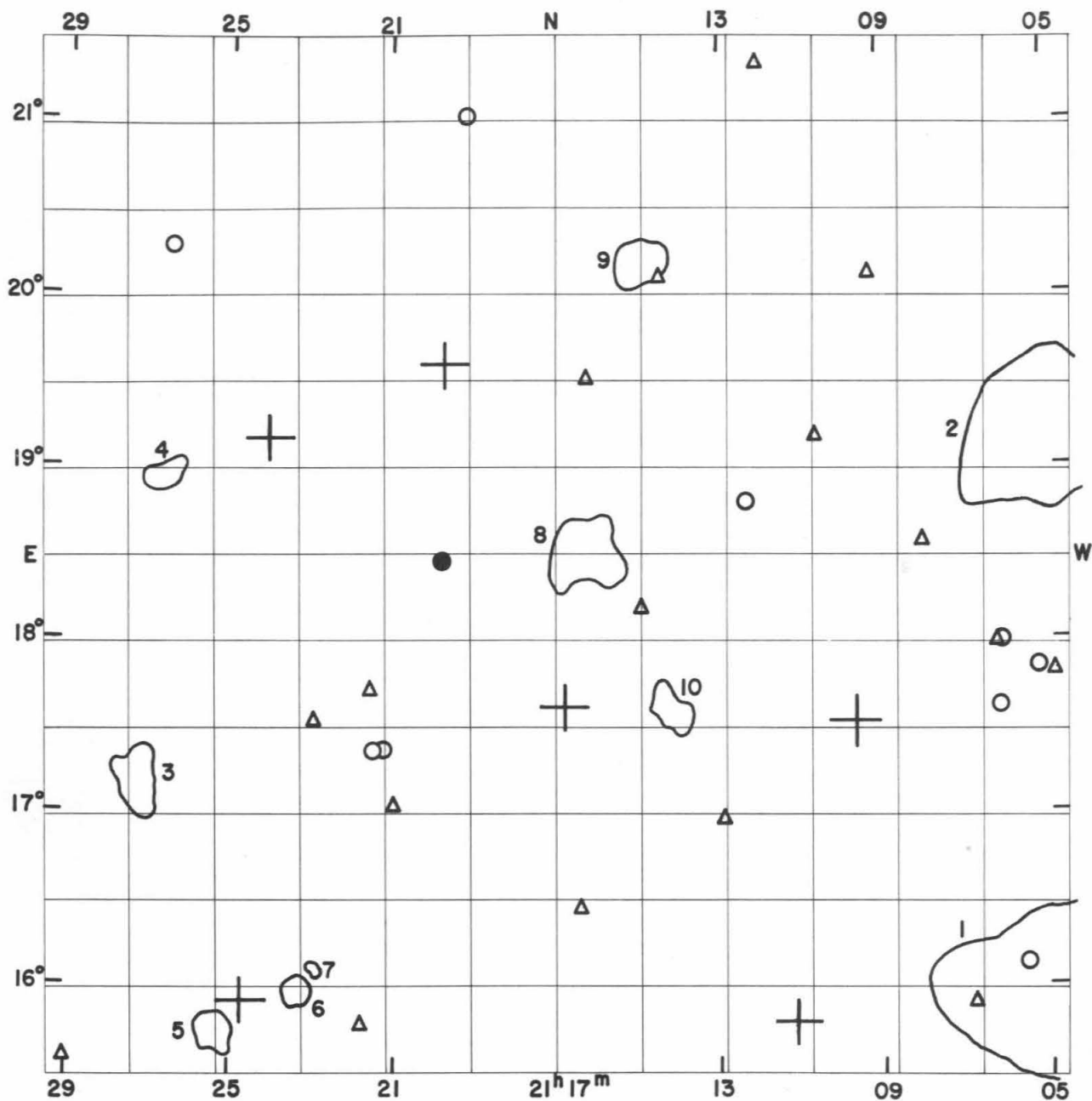
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2047.4 + 2050	medium compact	45	1.5	VD	4
2055.2 + 2035	compact	42	0.8	ED	3
2100.0 + 1623	open	170	12.3	Near	2
2105.1 + 1910	medium compact	113	4.8	D	1

Average number of galaxies per cluster = 92.5

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
20	41.0	+ 21 27		15.7		
20	41.1	+ 16 48		15.3		
20	43.2	+ 19 26		15.6		
20	43.9	+ 18 45		15.0		
20	45.2	+ 16 13		15.7		
20	45.4	+ 20 36		15.3		
20	45.8	+ 16 11		15.6		
20	46.0	+ 16 32		14.7		double system
20	46.5	+ 16 31		15.6		
20	47.0	+ 16 53		15.6		
20	47.3	+ 16 40		14.3		
20	48.3	+ 16 25		15.7		
20	48.5	+ 21 18		15.6		
20	48.7	+ 16 23		15.6		
20	49.1	+ 18 47		15.7		
20	49.2	+ 18 46		14.8		
20	51.9	+ 17 35		15.6		
20	54.0	+ 17 07		15.6		
20	54.2	+ 17 02		15.7		
20	55.0	+ 16 55		15.2		double system
20	55.2	+ 18 37		15.7		
20	56.0	+ 17 38		15.6		
20	56.7	+ 17 29		15.2		
20	56.7	+ 18 09		15.7		
20	57.8	+ 18 39		15.6		
20	58.1	+ 16 39		14.8		
20	58.4	+ 17 36	7003	13.8		
20	58.5	+ 16 07		15.3		
20	58.9	+ 15 54		15.4		
20	58.9	+ 15 57		15.7		
21	00.2	+ 19 01	5080*	15.6		
21	00.5	+ 19 00		15.7		
21	00.7	+ 15 51		14.9		
21	00.7	+ 20 17		15.7		
21	01.3	+ 15 52		15.7		
21	02.0	+ 21 12		15.7		
21	02.1	+ 15 53		15.1		double system
21	03.0	+ 19 32		15.7		
21	03.4	+ 18 16		14.8		
21	04.7	+ 17 49		15.7		
21	05.1	+ 17 51		15.0		double system



FIELD No. 449

$21^{\text{h}}17^{\text{m}} + 18^{\circ}30'$

Survey Plate No. 1141

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	o	'	"	
29631	21	09	40.0	+	17	32 04	7.32
29673	21	11	07.6	+	15	46 32	6.20
29829	21	16	51.3	+	17	36 41	6.63
29914	21	19	46.3	+	19	35 23	4.24
30023	21	24	07.2	+	19	09 29	6.06
30035	21	24	45.1	+	15	54 29	6.78

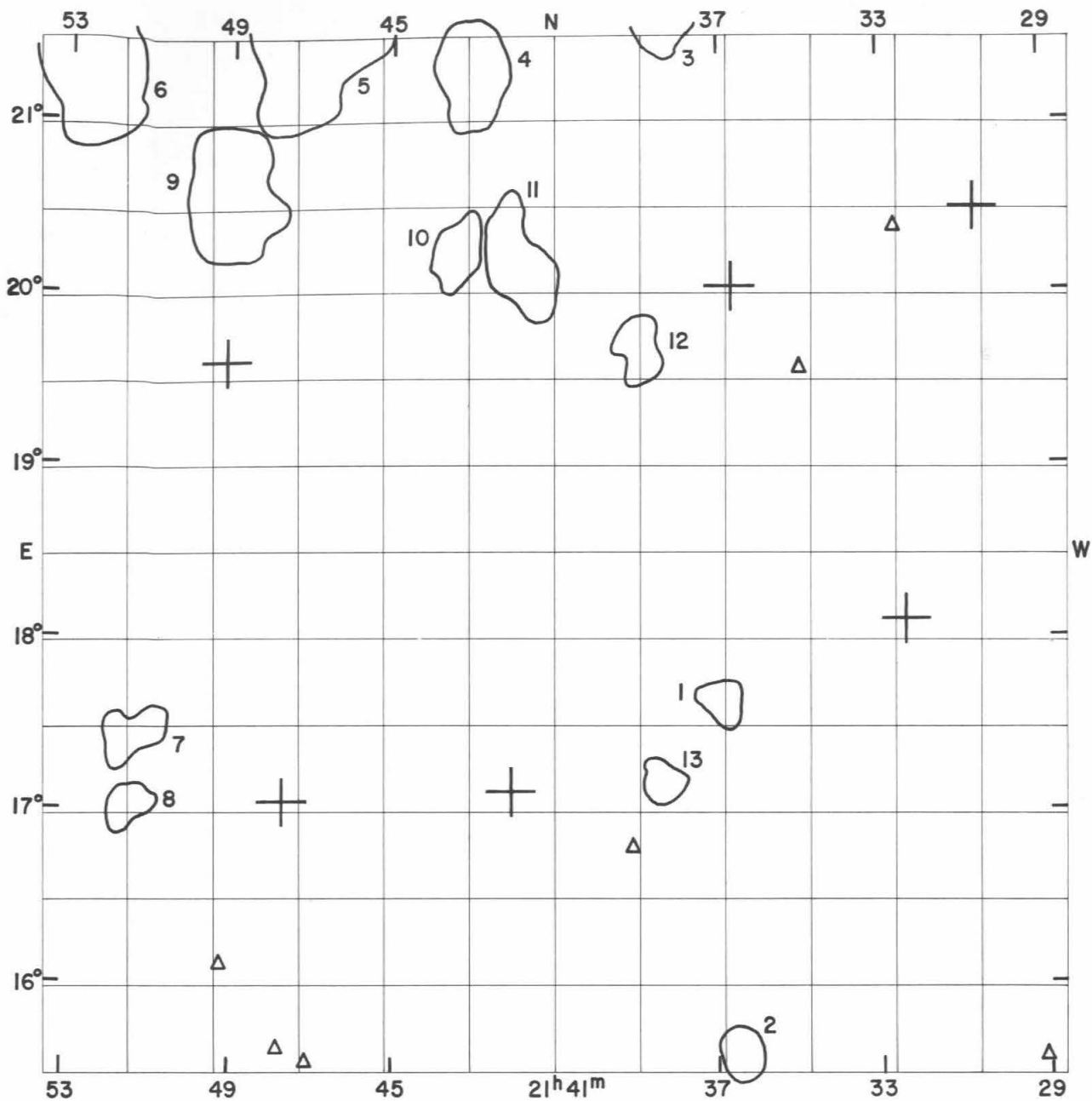
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
2100.0 + 1623	open	170	12.3	Near	1
2105.1 + 1910	medium compact	113	4.8	D	2
2114.1 + 1735	compact	79	1.3	ED	10
2114.9 + 2010	medium compact	60	1.5	VD	9
2116.3 + 1830	medium compact	105	2.2	VD	8
2122.9 + 1605	compact	30	0.4	ED	7
2123.3 + 1557	compact	58	0.9	ED	6
2125.3 + 1543	medium compact	48	1.2	ED	5
2126.6 + 1857	compact	44	1.0	ED	4
2127.2 + 1710	compact	111	1.6	ED	3

Average number of galaxies per cluster = 81.8

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
21	04.7	+17 49		15.7		
21	05.1	+17 51		15.0		double system
21	05.5	+16 08	7025	14.1		
21	06.1	+17 36		14.6		
21	06.1	+18 00		14.9		
21	06.2	+17 59		15.3		
21	06.9	+15 53		15.5		
21	08.1	+18 35		15.5		
21	09.3	+20 07		15.6		
21	10.6	+19 10		15.7		
21	12.1	+21 21		15.5		
21	12.3	+18 47		14.9		
21	12.9	+16 58		15.7		
21	14.5	+20 06		15.4		
21	14.9	+18 12		15.7		
21	16.2	+19 30		15.1		
21	16.4	+16 26		15.7		
21	19.2	+21 01	5104*	14.4		
21	19.8	+18 27	7056	13.8		
21	21.0	+17 02		15.2		
21	21.2	+17 22		15.0		
21	21.5	+17 21		15.0		
21	21.5	+17 43		15.6		
21	21.8	+15 46		15.5		
21	22.9	+17 32		15.7		
21	26.4	+20 17		14.6		
21	29.0	+15 35		15.7		



FIELD No. 450
 $21^{\text{h}}41^{\text{m}} + 18^{\circ}30'$
 Survey Plate No. 375

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	o	'	"	
30172	21	30	39.7	+	20	29 24	7.6
30213	21	32	25.1	+	18	06 19	6.62
30307	21	36	41.2	+	20	02 20	5.76
30444	21	42	08.5	+	17	07 11	4.52
30569	21	47	45.8	+	17	03 08	5.32
30594	21	49	13.2	+	19	35 29	5.68

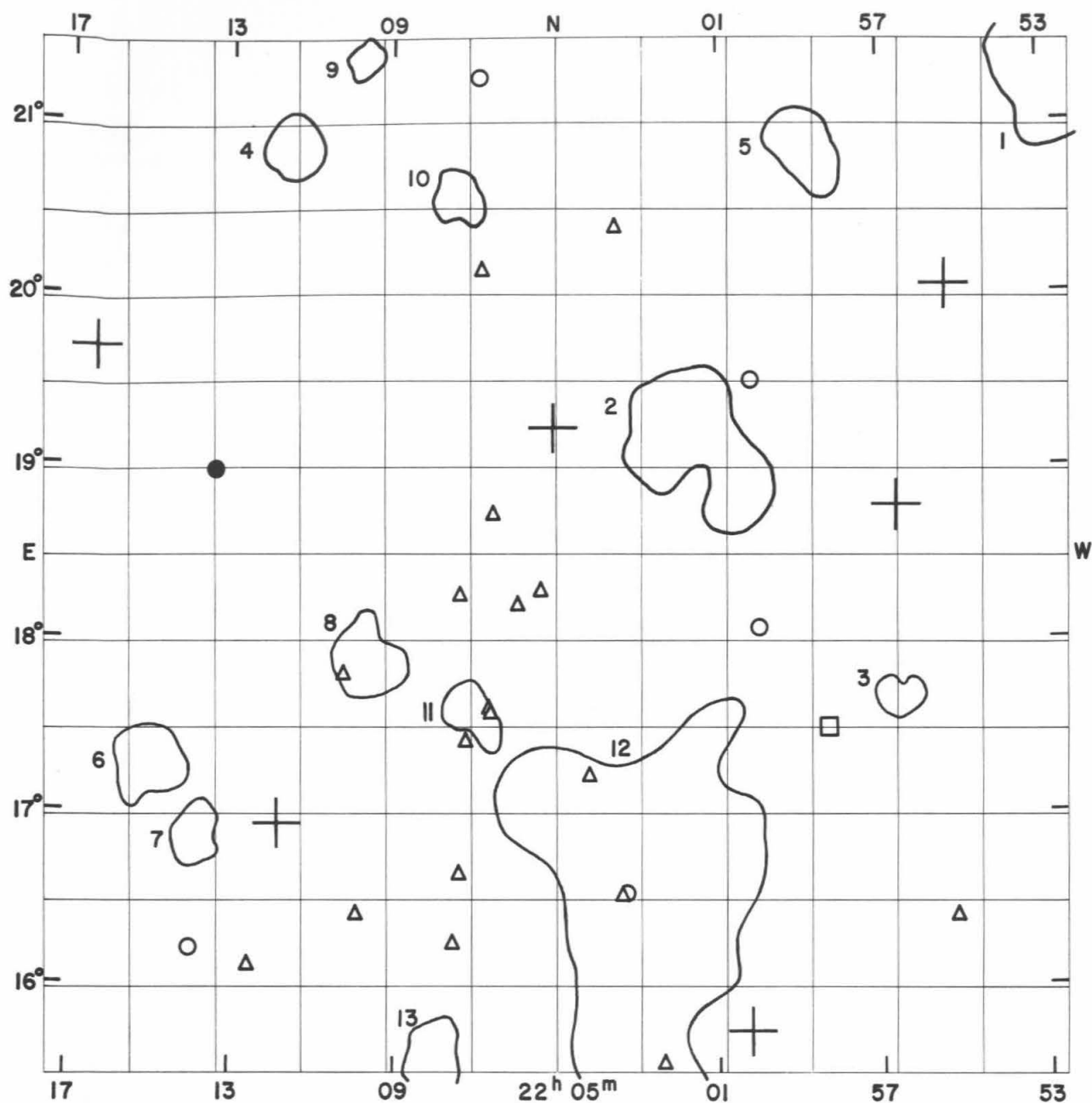
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2136.4 + 1536	compact	59	1.5	ED	2
2136.8 + 1738	compact	68	1.3	ED	1
2138.3 + 1711	compact	57	1.3	ED	13
2138.4 + 2140	medium compact	74	2.3	ED	3
2138.9 + 1941	medium compact	66	1.6	VD	12
2141.9 + 2010	medium compact	81	2.7	VD	11
2143.0 + 2118	medium compact	95	2.8	VD	4
2143.5 + 2014	medium compact	153	1.6	ED	10
2147.0 + 2148	open	153	5.9	D	5
2149.1 + 2036	medium compact	98	3.7	MD	9
2151.3 + 1727	medium compact	168	1.8	ED	7
2151.4 + 1702	medium compact	53	1.5	ED	8
2152.6 + 2118	medium compact	126	4.1	MD	6

Average number of galaxies per cluster = 96.2

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
21	29.0	+ 15 35		15.7		
21	32.7	+ 20 22		15.4		
21	35.0	+ 19 33		15.7		
21	39.1	+ 16 47		15.7		
21	47.1	+ 15 33		15.3		
21	47.8	+ 15 38		15.7		double system
21	49.2	+ 16 07		15.7		compact



FIELD No. 451

$22^{\text{h}}05^{\text{m}} + 18^{\circ}30'$

Survey Plate No. 187

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
30732	21	55	18.2	+	20	03 49	7.30
30761	21	56	37.2	+	18	46 52	6.57
30835	22	00	14.0	+	15	44 41	6.72
30943	22	05	05.6	+	19	13 49	5.78
31107	22	11	54.1	+	16	56 31	6.59
31200	22	16	23.4	+	19	42 43	7.05

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2152.6 + 2118	medium compact	126	4.1	MD	1
2156.5 + 1740	medium compact	76	1.4	ED	3
2158.7 + 2051	compact	97	2.4	VD	5
2201.5 + 1906	medium compact	84	4.5	D	2
2202.7 + 1628	medium compact	150	9.0	Near	12
2207.1 + 1733	medium compact	71	1.6	ED	11
2207.4 + 2033	medium compact	65	1.6	ED	10
2208.0 + 1533	medium compact	117	2.2	ED	13
2209.6 + 1753	compact	82	2.1	ED	8
2209.7 + 2123	compact	52	1.1	ED	9
2211.5 + 2051	medium compact	75	1.9	VD	4
2213.8 + 1652	compact	74	1.7	ED	7
2214.9 + 1717	compact	84	2.3	VD	6

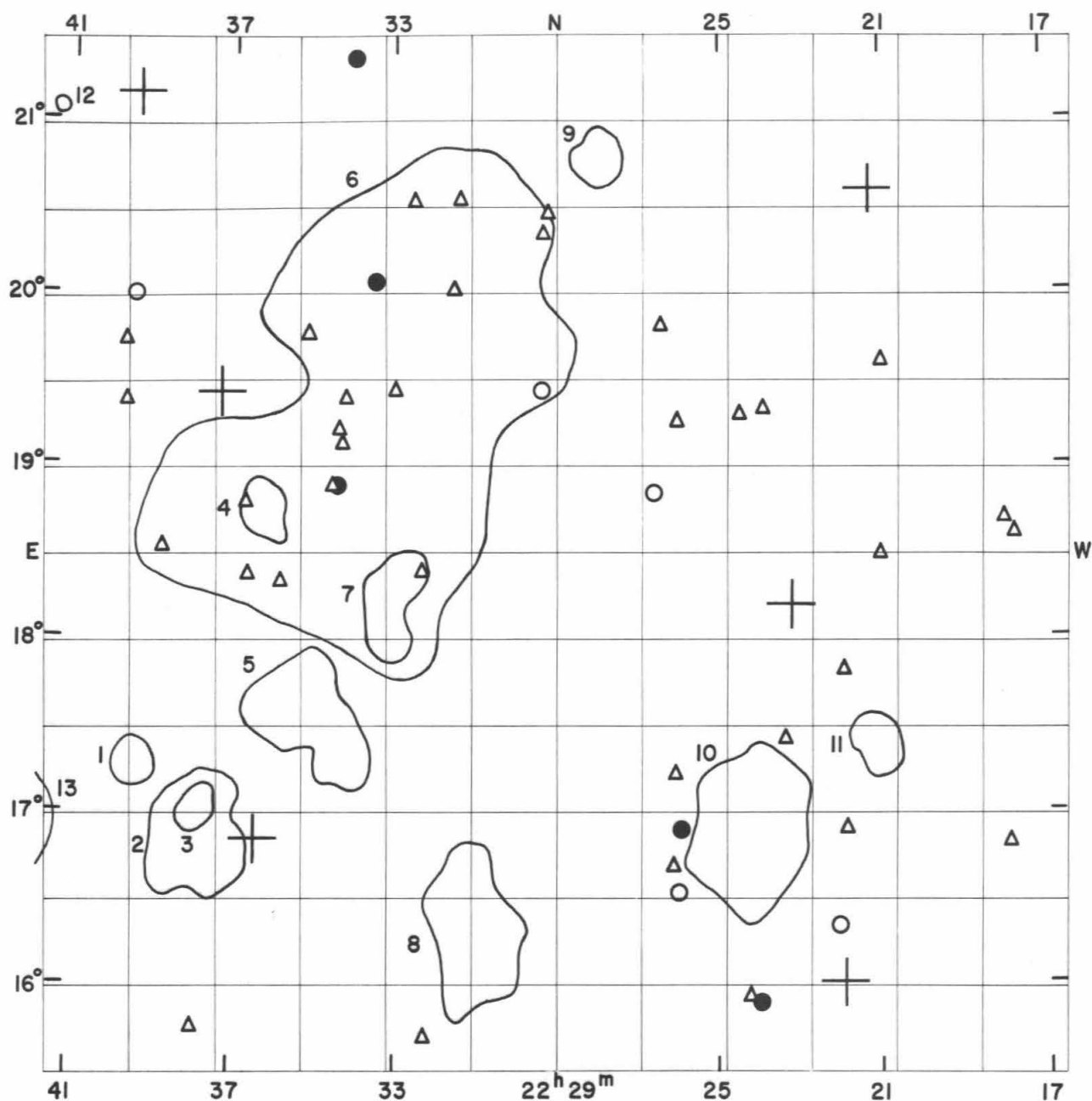
Average number of galaxies per cluster = 88.7

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
21	55.2	+16 24		15.5		
21	58.3	+17 30	7177	12.2	+1105	m _H = 12.1 S
22	00.0	+18 05		14.8		double system
22	00.2	+19 30	1420*	14.5		
22	02.4	+15 33		15.5		
22	03.2	+16 33	7206	14.8		compact
22	03.3	+16 32		15.6		
22	03.5	+20 24		15.1		
22	04.2	+17 13		15.4		
22	05.4	+18 17		15.7		
22	05.9	+18 13		15.6		
22	06.6	+17 34		15.7		
22	06.6	+17 35		15.5		
22	06.6	+18 44		15.5		
22	06.8	+20 08		15.7		very diffuse
22	06.9	+21 16		14.8		
22	07.2	+17 25		15.3		very compact
22	07.4	+16 38		15.7		
22	07.4	+18 15		15.4		
22	07.5	+16 15		15.6		
22	09.9	+16 25		15.7		
22	10.2	+17 47		15.6		
22	12.6	+16 06		15.6		
22	13.4	+18 59	7241	13.8		
22	13.9	+16 13	7244	14.9		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
7177	-	-	12.03	Sb	12.0	Sb	-	-



FIELD No. 452
 $22^{\text{h}}29^{\text{m}} + 18^{\circ}30'$
 Survey Plate No. 842

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	o	i	"	
31300	22	21	15.1	+	20	35 42	6.13
31322	22	21	59.1	+	16	00 34	7.07
31338	22	23	15.7	+	18	11 22	6.40
31612	22	36	30.7	+	16	50 16	8.0
31634	22	37	21.5	+	19	25 13	6.14
31676	22	39	26.6	+	21	10 13	8.3

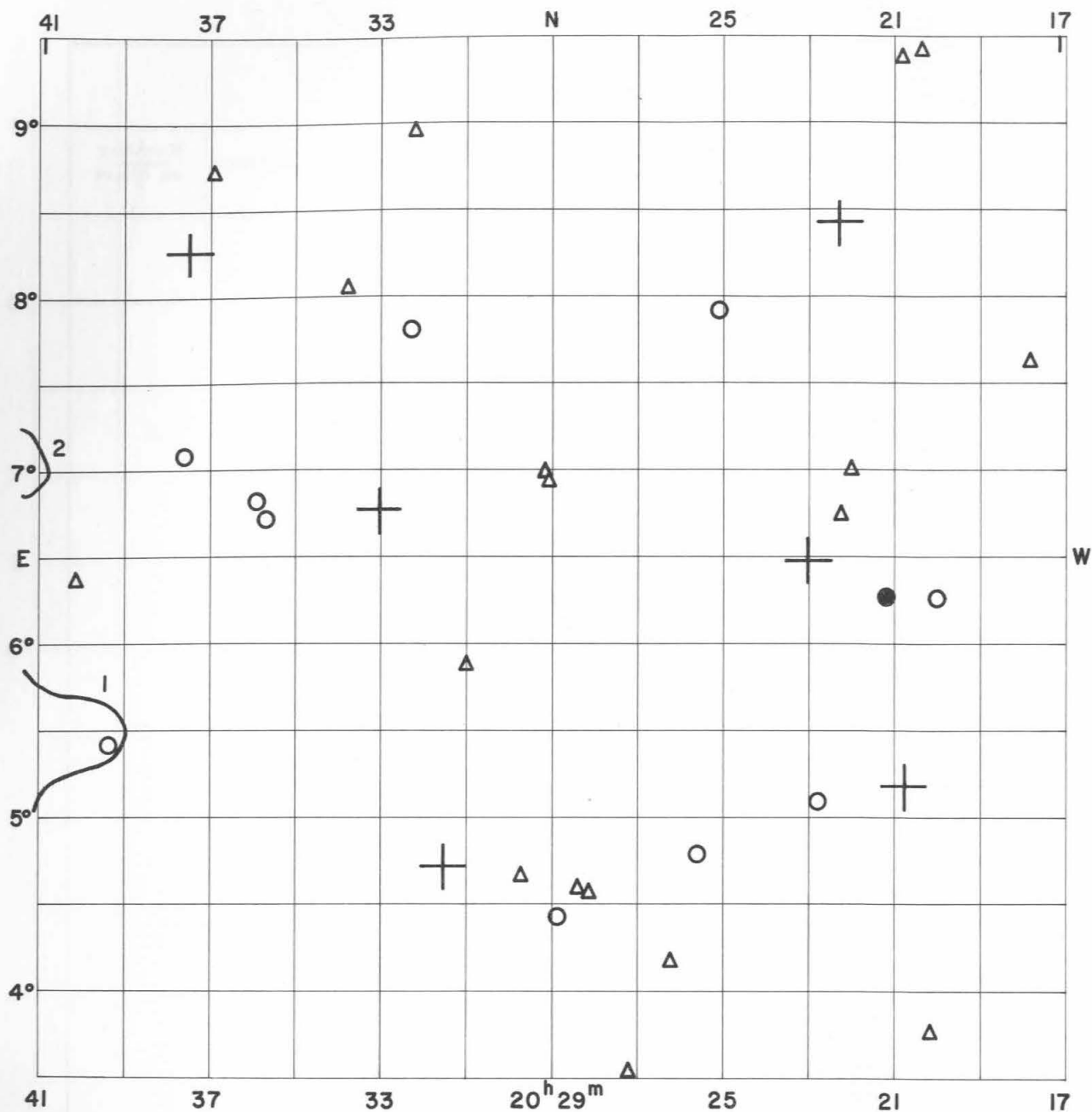
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2221.1 + 1722	medium compact	74	1.7	ED	11
2224.2 + 1651	compact	171	4.4	D	10
2227.9 + 2046	compact	82	1.6	ED	9
2231.0 + 1616	medium compact	90	3.8	VD	8
2233.1 + 1810	medium compact	98	2.3	D	7
2233.3 + 1911	open	197	12.8	Near	6
2235.0 + 1731	compact	152	3.5	D	5
2236.2 + 1844	compact	110	1.6	ED	4
2237.8 + 1649	medium compact	106	3.5	D	2
2237.8 + 1700	medium compact	91	1.3	ED	3
2239.4 + 1715	compact	96	1.4	ED	1
2241.4 + 2104	compact	27	0.4	ED	12
2242.9 + 1647	medium compact	86	4.2	D	13

Average number of galaxies per cluster = 106.2

GALAXIES

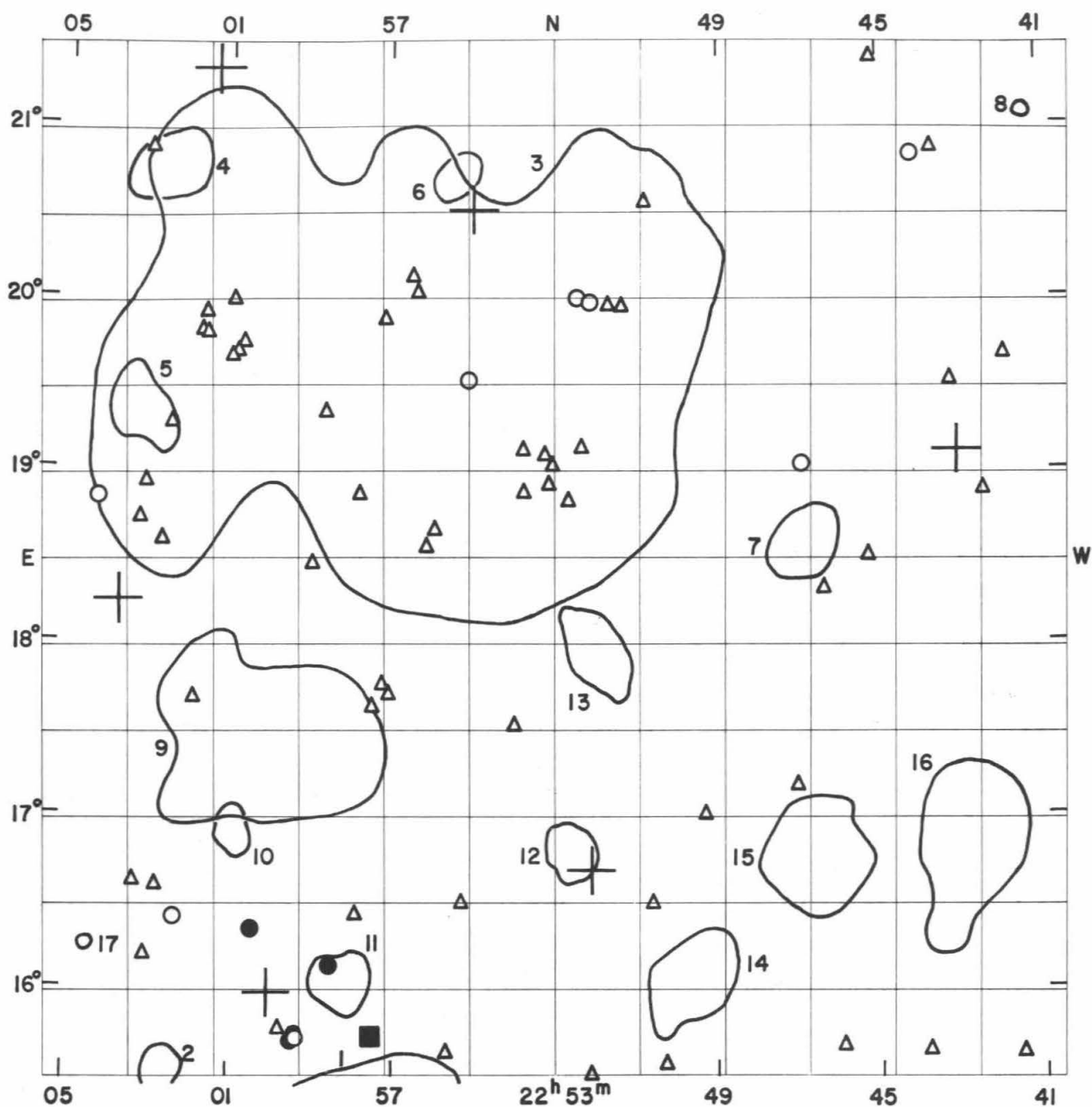
Position a 1950 δ h m o r				NGC IC*	m_p	V_s km/sec	Remarks
22 17.8	+	18 36			15.7		
22 18.0	+	16 48			15.7		
22 18.0	+	18 41			15.2		
22 21.0	+	18 29			15.5		compact
22 21.0	+	19 35			15.7		extremely diffuse
22 21.9	+	16 54			15.3		
22 22.0	+	17 50			15.3		
22 22.1	+	16 20		7272	15.0		double system
22 23.5	+	17 24			15.6		
22 23.9	+	19 19			15.6		
22 24.1	+	15 54		7280	13.6		
22 24.4	+	15 55			15.7		
22 24.5	+	19 17			15.1		
22 26.0	+	16 53		7290	13.8		
22 26.1	+	16 31		7291	14.8		
22 26.1	+	19 15			15.4		
22 26.2	+	17 13			15.5		
22 26.3	+	16 40			15.5		compact
22 26.5	+	19 48			15.6		
22 26.6	+	18 51			15.0		
22 29.3	+	20 27			15.4		
22 29.4	+	19 25			14.6		
22 29.4	+	20 22			15.3		
22 31.4	+	20 33			15.4		
22 31.6	+	20 01			15.5		
22 32.3	+	15 42			15.7		
22 32.4	+	18 23			15.4		
22 32.6	+	20 32			15.6		
22 33.0	+	19 25			15.2		
22 33.5	+	20 04		7316	13.7		
22 34.0	+	21 22		7321	14.0		
22 34.2	+	19 24			15.5		
22 34.3	+	19 07			15.3		
22 34.4	+	18 53		7323	14.0		
22 34.4	+	19 12			15.5		



FIELD No. 399
 $20^{\text{h}}29^{\text{m}} + 6^{\circ}30'$
 Survey Plate No. 315

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
28351	20	20	42.0	+	5	10 55	5.41
28389	20	22	12.6	+	8	26 04	6.62
28404	20	22	57.9	+	6	28 40	6.61
28614	20	31	30.6	+	4	43 36	6.68
28661	20	33	02.1	+	6	46 24	6.51
28788	20	37	33.6	+	8	16 10	7.4



FIELD No. 453

22^h 53^m + 18° 30'

Survey Plate No. 1161

GC STARS

Nos.	R.A.			Decl.	m _p
	h	m	s		
31753	22	43	02.0	+ 19 06 09	6.45
31945	22	52	07.6	+ 16 40 31	6.48
32003	22	55	00.3	+ 20 30 01	5.59
32106	23	00	06.3	+ 15 57 48	6.74
32137	23	01	23.4	+ 21 19 48	7.30
32178	23	03	48.9	+ 18 14 47	6.14

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2241.4 + 2104	compact	27	0.4	ED	8
2242.9 + 1647	medium compact	86	4.2	D	16
2246.6 + 1645	medium compact	72	3.5	VD	15
2247.0 + 1833	compact	128	2.3	ED	7
2249.7 + 1601	open	105	2.8	VD	14
2252.0 + 1756	open	107	2.3	VD	13
2252.6 + 1646	open	75	1.6	ED	12
2255.5 + 2041	medium compact	54	1.4	ED	6
2255.8 + 1350	open	230	14.7	Near	1
2256.5 + 1933	medium compact	200	18.2	Near	3
2258.2 + 1601	medium compact	93	1.9	ED	11
2300.1 + 1724	medium compact	171	6.5	MD	9
2300.9 + 1653	compact	54	1.3	ED	10
2302.6 + 1530	medium compact	59	1.4	ED	2
2302.6 + 2044	open	97	2.4	VD	4
2303.2 + 1919	compact	100	2.2	D	5
2304.5 + 1614	compact	40	0.3	ED	17

Average number of galaxies per cluster = 99.9

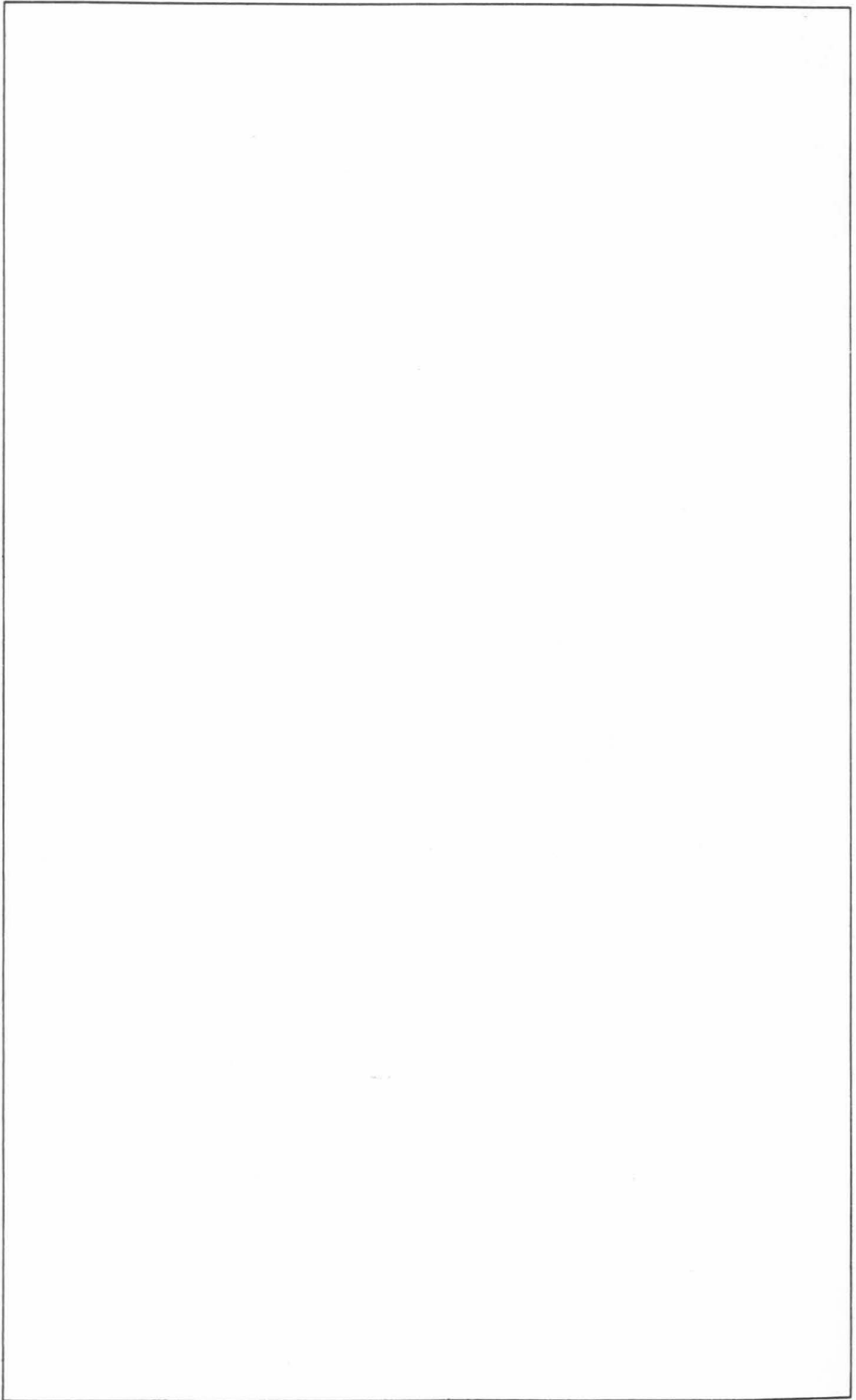
GALAXIES

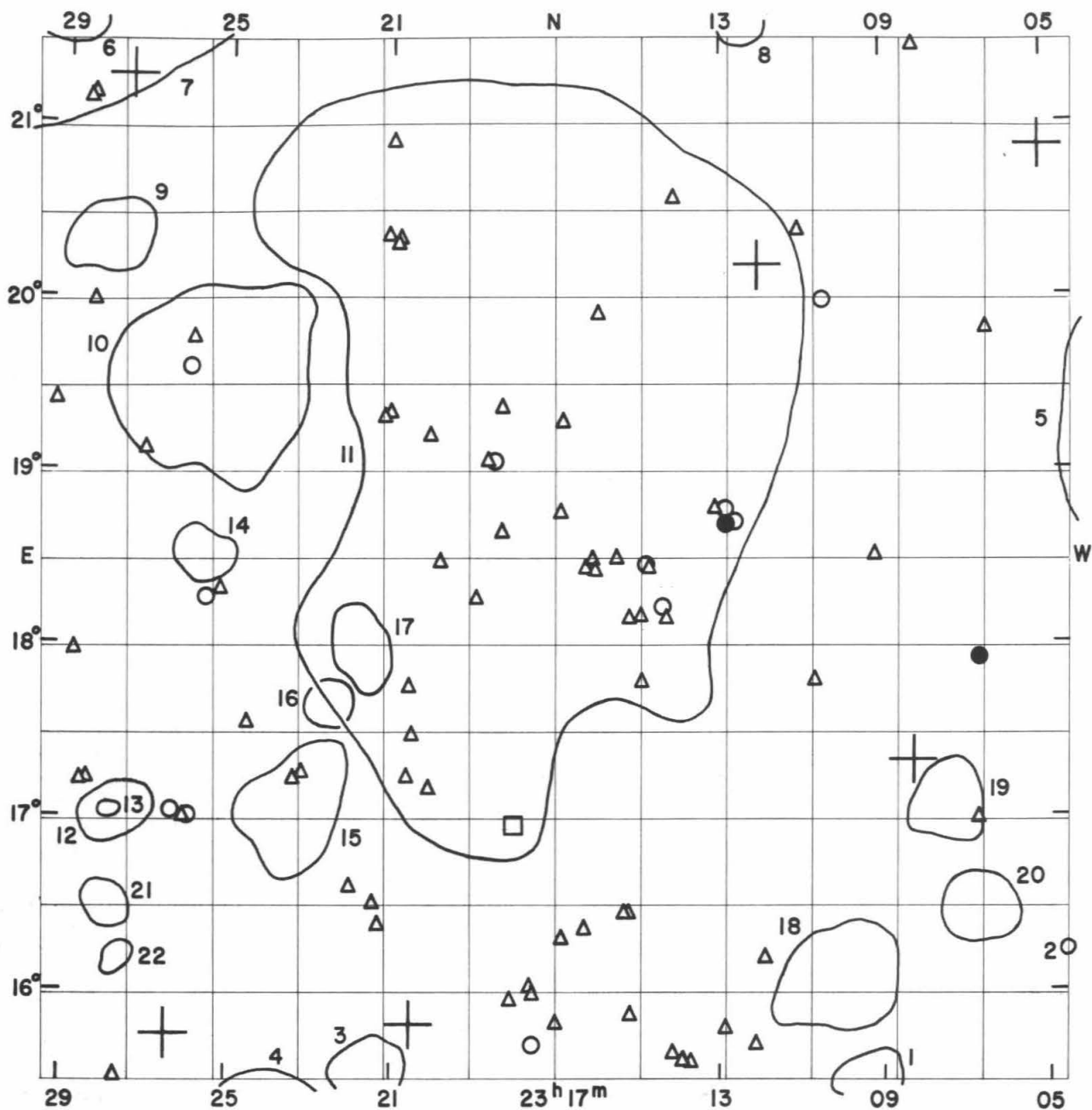
Position a 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
22 41.7	+ 15 36			15.7		compact
22 41.9	+ 19 39			15.5		
22 42.5	+ 18 51			15.6		
22 43.3	+ 19 30			15.6		
22 43.7	+ 20 51		5254*	15.6		
22 43.8	+ 15 36			15.7		diffuse
22 44.2	+ 20 49		7375	14.9		
22 45.2	+ 21 22			15.6		
22 45.3	+ 18 30			15.7		
22 46.0	+ 15 39			15.4		
22 46.4	+ 18 18			15.3		
22 46.9	+ 19 01			14.8		
22 47.1	+ 17 10			15.7		
22 49.3	+ 17 00			15.6		double system
22 50.4	+ 15 33			15.3		
22 50.7	+ 16 29			15.5		
22 50.8	+ 20 33			15.7		double system
22 51.3	+ 19 56		7409	15.6		
22 51.7	+ 19 56			15.7		
22 52.1	+ 19 58		7411	14.8		compact
22 52.2	+ 15 29			15.3		
22 52.4	+ 19 07			15.5		
22 52.4	+ 19 59		7415	15.0		double system
22 52.7	+ 18 48			15.6		
22 53.0	+ 19 01			15.1		double system
22 53.1	+ 18 53			15.5		
22 53.2	+ 19 05			15.7		
22 53.8	+ 18 51			15.5		double system
22 53.8	+ 19 06			15.7		very diffuse
22 54.0	+ 17 31			15.1		
22 55.1	+ 19 31			14.5		double system

Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o r				
22	55.3	+ 16 30		15.6		very compact
22	55.7	+ 15 37		15.6		
22	56.0	+ 18 39	5274*	15.3		very compact
22	56.2	+ 18 33	5276*	15.2		
22	56.3	+ 20 02		15.3		
22	56.5	+ 20 07		15.4		
22	57.1	+ 17 42		15.1		
22	57.2	+ 17 45		15.7		
22	57.2	+ 19 53		15.7		double system
22	57.5	+ 17 37		15.3		
22	57.6	+ 15 42	7448	12.0	+ 2419	$m_H = 11.8$ Sc compact
22	57.8	+ 16 26		15.6		
22	57.8	+ 18 51		15.5		
22	58.6	+ 16 07	7454	13.6		
22	58.6	+ 19 20		15.2		
22	59.0	+ 18 27		15.7		
22	59.3	+ 15 43	7463	13.5		
22	59.3	+ 15 42	7464	14.5		
22	59.5	+ 15 42	7465	13.3		
22	59.8	+ 15 45		15.7		
23	00.5	+ 16 20	7468	14.0		
23	00.7	+ 19 45		15.7		
23	00.8	+ 19 42		15.5		double system
23	00.9	+ 19 40		15.6		
23	00.9	+ 19 59		15.7		very compact
23	01.5	+ 19 55		15.5		
23	01.6	+ 19 46	7474	15.2		compact
23	01.7	+ 19 47	7475	15.1		double system
23	01.8	+ 17 41		15.5		compact
23	02.3	+ 16 24		15.0		
23	02.4	+ 19 16		15.2		
23	02.6	+ 18 35		15.5		
23	02.8	+ 16 35		15.1		diffuse
23	02.9	+ 20 53		15.1		
23	03.0	+ 16 12		15.3		
23	03.0	+ 18 55		15.7		
23	03.2	+ 18 43		15.6		
23	03.3	+ 16 37		15.5		compact
23	04.2	+ 18 50	5284*	14.9		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
7448	-	-	11.99	Sc	12.0	Sc	-	-





FIELD No. 454

$23^{\text{h}}17^{\text{m}} + 18^{\circ}30'$

Survey Plate No. 320

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
32209	23	05	00.5	+	20	51 51	5.93
32291	23	08	13.3	+	17	19 23	5.94
32352	23	12	01.8	+	20	10 11	7.15
32545	23	20	33.6	+	15	47 43	8.6
32665	23	26	31.1	+	15	44 13	6.98
32678	23	27	31.6	+	21	16 26	7.12

CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
2256.5 + 1933	medium compact	200	18.2	Near	5
2304.5 + 1614	compact	40	0.3	ED	2
2306.8 + 1626	open	54	2.2	ED	20
2307.5 + 1703	open	62	2.3	VD	19
2309.5 + 1527	medium compact	63	2.0	VD	1
2310.1 + 1602	open	67	3.6	VD	18
2312.3 + 2134	medium compact	53	1.6	ED	8
2318.0 + 1910	open	275	19.2	Near	11
2321.6 + 1530	medium compact	78	2.2	VD	3
2321.8 + 1758	medium compact	99	2.1	VD	17
2322.4 + 1427	medium compact	352	10.4	Near	4
2322.5 + 1738	medium compact	62	1.5	ED	16
2323.4 + 1700	open	66	3.6	VD	15
2325.4 + 1930	open	116	6.4	D	10
2325.6 + 1830	medium compact	77	1.8	ED	14
2327.7 + 1610	medium compact	37	1.0	ED	22
2327.7 + 1702	medium compact	60	2.0	VD	12
2327.9 + 1702	compact	45	0.6	ED	13
2327.9 + 2020	medium compact	104	2.6	ED	9
2328.0 + 1629	medium compact	72	1.5	ED	21
2330.2 + 2239	medium compact	231	8.9	D	6
2335.5 + 2449	medium compact	970	32.3	Near	7

Average number of galaxies per cluster = 144.7

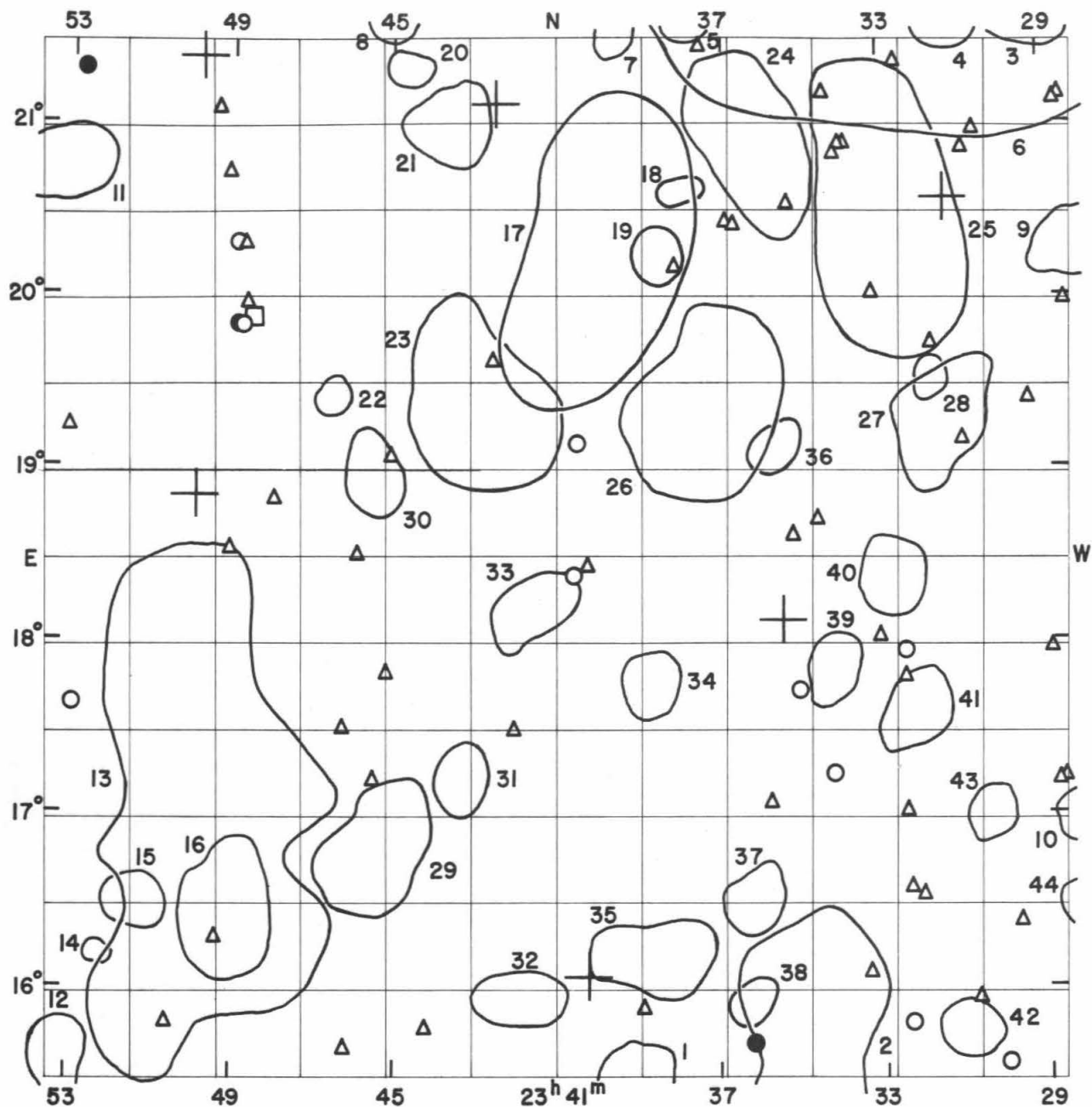
GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
23	06.5	+19 47		15.7		diffuse
23	06.7	+16 58	1472*	15.5		
23	06.7	+17 54	7497	13.3		
23	08.1	+21 26		15.5		
23	09.2	+18 30		15.7		
23	10.4	+19 58	7516	14.6		
23	10.8	+17 47		15.6		
23	11.0	+20 22		15.7		
23	11.8	+16 11		15.6		
23	12.1	+15 40	7540	15.7		
23	12.5	+18 42	7547	14.9		
23	12.8	+18 41	7550	13.9		
23	12.8	+18 46	7549	14.1		
23	12.9	+15 46		15.7		
23	13.1	+18 47		15.7		
23	13.7	+15 36	7567	15.4		
23	13.9	+15 35		15.7		
23	14.1	+20 33	5300*	15.7		double system
23	14.2	+15 37		15.4		
23	14.2	+18 08		15.7		
23	14.4	+18 13	7572	15.0		
23	14.7	+18 25		15.3		
23	14.8	+18 09		15.7		
23	14.8	+18 26	7578	15.0		
23	14.9	+17 47		15.7		
23	15.2	+15 52		15.7		

Position a 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o ' "				
23	15.2	+ 16 26		15.7		
23	15.2	+ 18 08		15.7		
23	15.3	+ 16 26		15.6		
23	15.4	+ 18 29	7588	15.7		
23	15.9	+ 19 54		15.7		
23	16.0	+ 18 25	7597	15.3		compact
23	16.1	+ 18 28	7598	15.6		compact
23	16.3	+ 18 26	7602	15.5		compact
23	16.4	+ 16 21		15.2		
23	16.8	+ 18 45		15.5		
23	16.8	+ 19 16		15.4		
23	16.9	+ 16 17		15.7		
23	17.0	+ 15 48		15.6		
23	17.6	+ 15 41		14.3		
23	17.6	+ 15 59		15.7		
23	17.6	+ 16 01		15.7		compact
23	18.0	+ 16 57	7625	12.8	+ 1767	$m_H = 12.9$
23	18.1	+ 15 56		15.4		
23	18.3	+ 18 38		15.5		
23	18.3	+ 19 21		15.7		compact
23	18.5	+ 19 03	5312*	15.0		double system
23	18.7	+ 19 02	5314*	15.6		compact
23	18.9	+ 18 15		15.7		
23	19.8	+ 18 27		15.4		
23	20.1	+ 17 10		15.7		
23	20.1	+ 19 11		15.5		double system
23	20.5	+ 17 28		15.6		compact
23	20.6	+ 17 45		15.7		very diffuse
23	20.7	+ 17 15		15.5		
23	20.8	+ 20 17		15.3		
23	20.8	+ 20 19		15.5		
23	20.9	+ 20 53	5317*	15.1		
23	21.0	+ 19 19		15.4		
23	21.1	+ 19 17		15.5		
23	21.1	+ 20 20		15.7		very compact
23	21.4	+ 16 22		15.7		
23	21.5	+ 16 31	7647	15.2		
23	22.0	+ 16 36		15.6		
23	23.2	+ 17 15		15.7		
23	23.4	+ 17 13		15.6		
23	24.6	+ 17 32		15.7		
23	25.2	+ 18 18		15.5		
23	25.6	+ 18 15		14.9		
23	25.8	+ 19 45		15.6		
23	25.9	+ 19 35		14.9		
23	26.0	+ 17 00	7681	15.0		
23	26.1	+ 17 00		15.7		
23	26.4	+ 17 03		14.2		
23	27.0	+ 19 06		15.7		diffuse
23	27.7	+ 15 29		15.4		
23	28.4	+ 19 58		15.5		
23	28.5	+ 17 13		15.7		
23	28.5	+ 21 11		15.7		
23	28.6	+ 21 08	7688	15.4		
23	28.7	+ 17 12		15.7		
23	28.8	+ 17 58		15.7		
23	29.4	+ 19 24		15.5		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951	Pettit 1954	Humason, Mayall, Sandage 1956	Holmberg 1958
7625	- -	13.15 S0p	13.2 S0p	- -



FIELD No. 455

$23^{\text{h}}41^{\text{m}} + 18^{\circ}30'$

Survey Plate No. 1182

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	o	i	"	
32771	23	31	24.8	+	20	33 52	6.29
32842	23	35	25.1	+	18	07 24	5.42
32932	23	40	11.3	+	16	03 29	6.51
32972	23	42	32.2	+	21	06 45	6.98
33117	23	49	50.8	+	21	23 34	6.28
33119	23	49	56.4	+	18	50 33	5.23

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2327.7 + 1702	medium compact	60	2.0	VD	10
2327.9 + 2020	medium compact	104	2.6	ED	9
2328.0 + 1629	medium compact	72	1.5	ED	44
2330.2 + 2239	medium compact	231	8.9	D	3
2330.3 + 1700	open	66	1.6	ED	43
2330.9 + 1545	medium compact	66	1.9	VD	42
2331.2 + 2144	medium compact	145	2.7	VD	4
2331.4 + 1915	medium compact	79	3.5	VD	27
2331.8 + 1931	compact	67	1.2	ED	28
2332.1 + 1737	compact	115	2.3	ED	41
2332.8 + 1823	open	99	2.3	ED	40
2332.8 + 2027	medium compact	216	7.1	Near	25
2334.1 + 1752	open	73	2.0	VD	39
2334.8 + 1543	open	116	6.0	MD	2
2335.5 + 2449	medium compact	970	32.3	Near	6
2335.6 + 1907	medium compact	61	1.6	ED	36
2336.1 + 1630	medium compact	102	2.0	ED	37
2336.2 + 1555	medium compact	69	1.5	ED	38
2336.3 + 2054	compact	92	4.4	MD	24
2337.3 + 1919	medium compact	120	5.3	D	26
2337.8 + 2140	medium compact	61	1.7	VD	5
2338.0 + 2036	medium compact	52	1.1	ED	18
2338.5 + 1610	medium compact	160	3.2	VD	35
2338.5 + 2014	medium compact	74	1.7	VD	19
2338.7 + 1745	open	89	2.0	ED	34
2339.0 + 1528	open	91	2.4	ED	1
2339.6 + 2132	open	60	1.4	ED	7
2339.8 + 2015	open	150	7.6	D	17
2341.6 + 1812	medium compact	108	2.4	VD	33
2341.8 + 1556	medium compact	100	2.3	VD	32
2342.9 + 1920	medium compact	33	5.0	VD	23
2343.2 + 1713	medium compact	103	1.9	VD	31
2343.7 + 2058	open	60	2.7	VD	21
2344.6 + 2118	medium compact	56	1.3	ED	20
2345.1 + 2140	open	58	1.8	VD	8
2345.4 + 1648	medium compact	101	3.7	D	29
2345.4 + 1857	medium compact	122	2.3	ED	30
2346.5 + 1923	medium compact	45	1.1	ED	22
2349.0 + 1625	medium compact	88	3.7	D	16
2349.7 + 1653	open	234	10.8	MD	13
2351.2 + 1629	medium compact	73	2.0	ED	15
2352.1 + 1612	compact	65	0.8	ED	14
2353.0 + 1535	medium compact	66	2.1	VD	12
2353.7 + 2044	open	110	3.2	VD	11

Average number of galaxies per cluster = 115.5

GALAXIES

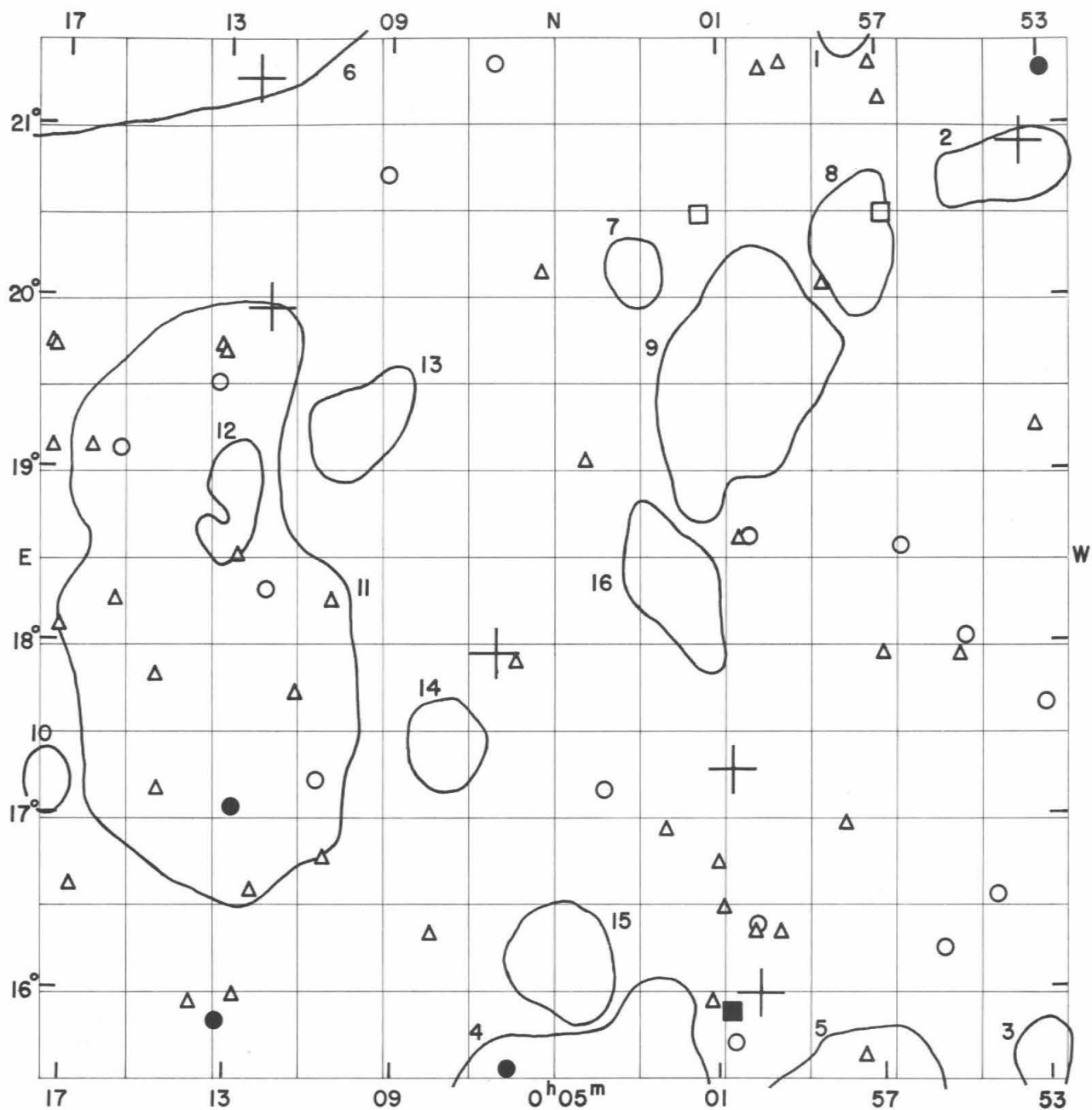
Position a 1950 δ h m o ' "	NGC IC*	m_p	V_s km/sec	Remarks
23 28.4 + 19 58		15.5		
23 28.5 + 17 13		15.7		
23 28.5 + 21 11		15.7		
23 28.6 + 21 08	7688	15.4		

Position			NGC IC*	m_p	V_s km/sec	Remarks
α h m	1950	δ ° ' "				
23	28.7	+17 12		15.7		
23	28.8	+17 58		15.7		
23	29.4	+19 24		15.5		
23	29.7	+16 23		15.6		
23	30.0	+15 34	7691	14.2		
23	30.7	+15 55		15.4		
23	30.8	+20 57	5329*	15.7		
23	31.0	+19 10		15.6		double system
23	31.0	+20 51	5331*	15.1		
23	31.8	+19 43		15.4		very compact
23	32.0	+16 33		15.7		
23	32.3	+15 48	7703	14.8		
23	32.3	+16 35		15.4		
23	32.4	+17 01		15.7		
23	32.4	+17 48		15.2		
23	32.4	+17 57		14.7		
23	32.7	+21 21		15.2		
23	33.0	+18 02		15.7		very diffuse
23	33.2	+20 01		15.6		
23	33.3	+16 06		15.3		
23	33.9	+20 52	5337*	15.4		
23	34.0	+20 52	5338*	15.5		
23	34.2	+17 15		15.0		
23	34.2	+20 50		15.6		
23	34.4	+21 10		15.6		
23	34.6	+18 42		15.6		
23	35.0	+17 44		14.7		
23	35.2	+18 37		15.4		
23	35.3	+20 32		15.7		
23	35.8	+17 04		15.7		
23	36.2	+15 41	7722	13.7		
23	36.7	+20 24		15.6		
23	36.8	+20 25		15.7		very compact
23	37.5	+21 26		15.2		
23	38.1	+20 10		15.7		
23	38.8	+15 52		15.3		
23	40.2	+18 26		15.7		compact
23	40.5	+19 09		14.6		
23	40.6	+18 23		14.7		double system
23	42.0	+17 30		15.6		
23	42.6	+19 37		15.2		
23	44.2	+15 46		15.4		compact
23	45.0	+19 04		15.7		
23	45.2	+17 49		15.6		
23	45.5	+17 12		15.2		
23	45.9	+18 30		15.7		
23	46.2	+15 39		15.6		
23	46.3	+17 30		15.6		
23	47.9	+18 50		15.7		
23	48.5	+19 52	7769	12.9	+4349	$m_H = 12.9$ S
23	48.7	+19 57		15.7		
23	48.7	+20 17		15.5		double system, bridge
23	48.8	+19 49	7770	14.5	+4338	double system
23	48.9	+19 50	7771	13.1	+4276	
23	48.9	+20 18		14.9		
23	49.1	+18 32		15.4		
23	49.2	+20 43		15.7		
23	49.4	+16 17		15.5		
23	49.4	+21 06		15.6		

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
23	50.5	+ 15 47		15.7		compact
23	52.8	+ 21 19	7786	13.9		
23	53.0	+ 17 38		14.4		
23	53.1	+ 19 15		15.4		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
7769	-	-	12.88	Sc	12.5	Sc	-	-
7770	-	-	14.52	SBb	14.5	Sb	-	-
7771	-	-	13.15	Sb	13.1	SBb	-	-



FIELD No. 456

$0^h 05^m + 18^\circ 30'$

Survey Plate No. 1195

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
33192	23	53	25.2	+	20	53 14	6.60
33342	23	59	58.5	+	15	58 42	7.19
14	0	00	39.2	+	17	16 29	6.66
144	0	06	27.4	+	17	56 03	5.69
270	0	12	00.7	+	19	55 43	4.94
282	0	12	20.9	+	21	15 53	7.28

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
2353.0 + 1535	medium compact	66	2.1	VD	3
2353.7 + 2044	open	110	3.2	VD	2
2357.4 + 1515	medium compact	147	6.0	VD	5
2357.4 + 2018	medium compact	123	3.3	VD	8
2357.7 + 2137	medium compact	73	1.9	VD	1
0000.4 + 1931	medium compact	121	6.4	D	9
0002.0 + 1820	open	54	3.7	VD	16
0003.0 + 2008	medium compact	86	2.0	ED	7
0004.2 + 1516	open	171	7.2	D	4
0004.8 + 1609	medium compact	70	3.5	VD	15
0007.7 + 1725	compact	88	2.7	ED	14
0009.8 + 1913	medium compact	67	3.2	D	13
0012.8 + 1850	open	73	2.4	VD	12
0013.4 + 1805	open	135	12.7	Near	11
0014.5 + 2315	open	245	23.6	Near	6
0017.3 + 1711	open	74	1.6	ED	10

Average number of galaxies per cluster = 106.4

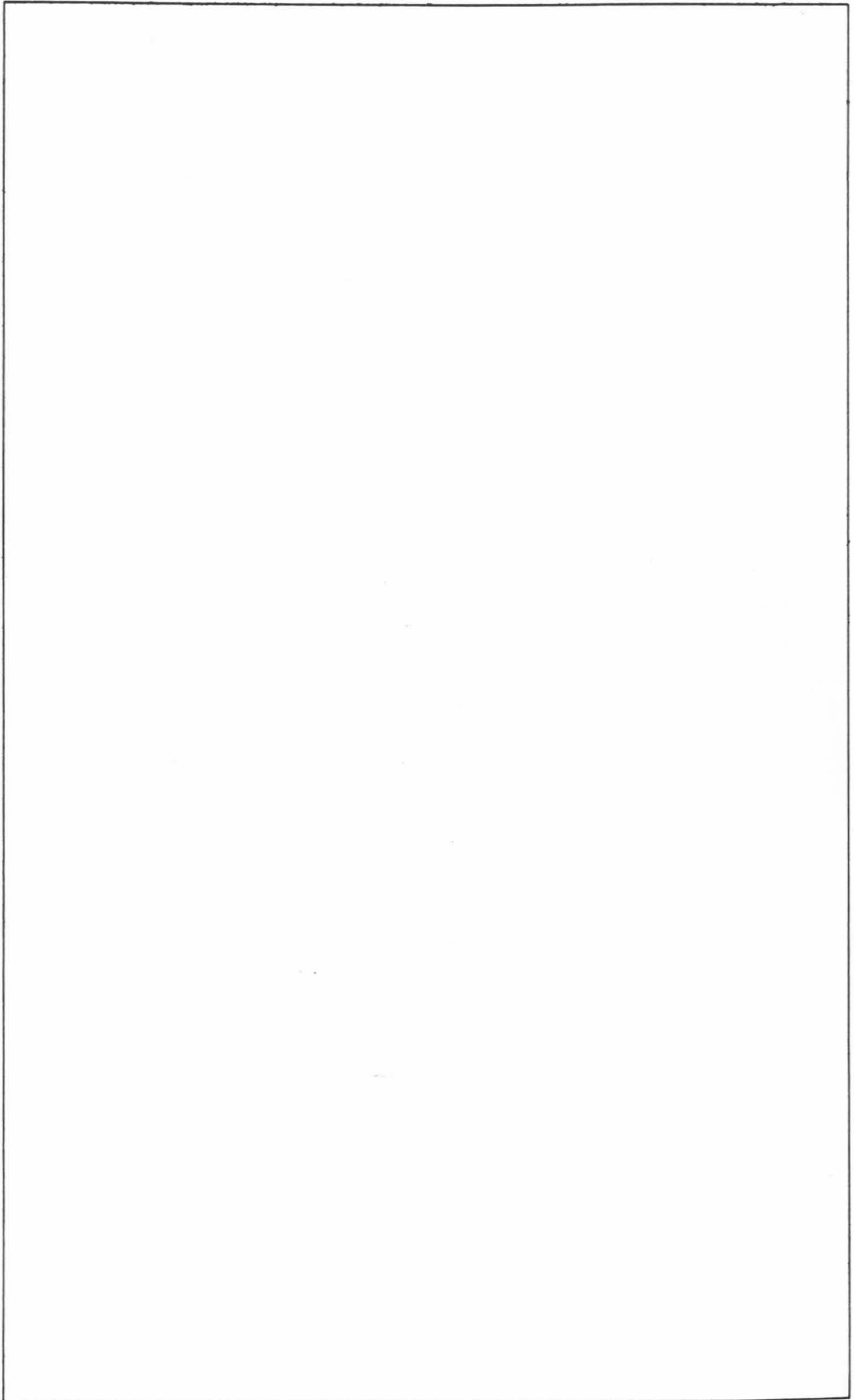
GALAXIES

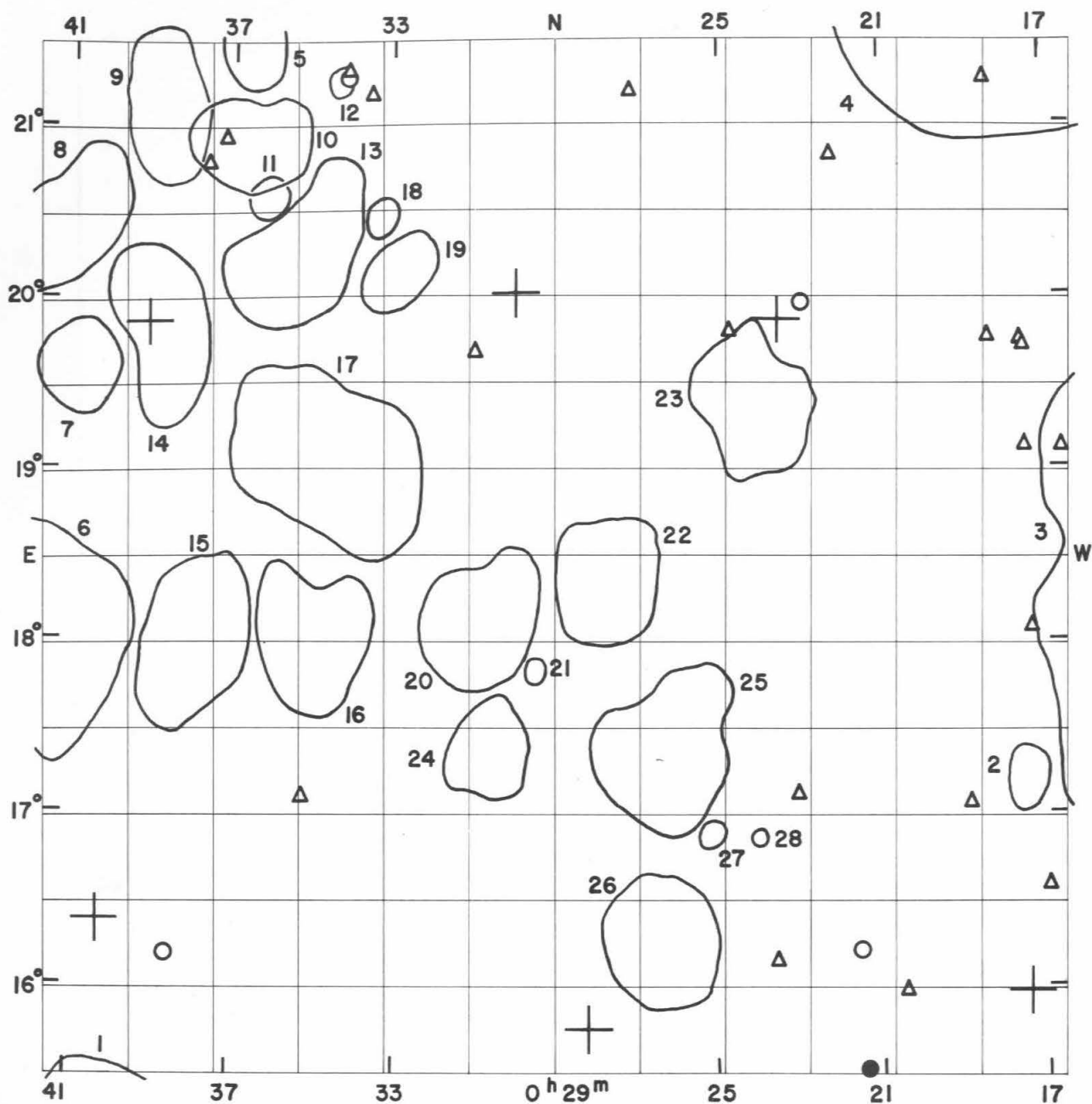
Position a 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	o				
23	52.8	+ 21 19	7786	13.9		
23	53.0	+ 17 38		14.4		
23	53.1	+ 19 15		15.4		
23	54.2	+ 16 33		14.5		
23	55.0	+ 18 02		14.8		
23	55.1	+ 17 55		15.3		compact
23	55.6	+ 16 44	7792	14.9		double system
23	56.5	+ 18 34		15.0		
23	56.9	+ 20 29	7798	12.7		
23	57.0	+ 17 56		15.1		
23	57.0	+ 21 08		15.3		
23	57.2	+ 21 21		15.7		compact
23	57.5	+ 15 36		15.4		
23	57.9	+ 16 57		15.3		extremely diffuse
23	58.4	+ 20 04		15.7		
23	59.4	+ 21 21		15.4		
23	59.5	+ 16 19	5377*	15.6		
0	00.0	+ 16 22	5378*	14.9		double system
0	00.0	+ 21 19		15.7		
0	00.1	+ 16 18	5379*	15.7		
0	00.2	+ 18 37		14.8		
0	00.5	+ 18 36		15.5		
0	00.7	+ 15 42	5381*	14.9		
0	00.7	+ 15 52	7814	12.0	+ 1047	m _H = 12.4 Sa
0	00.9	+ 16 28		15.5		
0	01.0	+ 16 44		15.7		
0	01.2	+ 15 55		15.4		
0	01.4	+ 20 28	7817	12.7		
0	02.3	+ 16 55		15.3		
0	03.8	+ 17 09		14.5		double system, bridge
0	04.3	+ 19 02		15.5		
0	05.3	+ 20 08		15.5		

Position			NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ				
h	m	o				
0	05.9	+ 17 52		15.4		
0	06.2	+ 15 32	14	13.3		
0	06.5	+ 21 21	15	14.9		
0	08.0	+ 16 19		15.2		
0	09.1	+ 20 42		15.0		
0	10.5	+ 18 14		15.5		double system
0	10.7	+ 16 45		15.2		double system
0	10.8	+ 17 13	4*	14.2		
0	11.3	+ 17 42		15.7		compact
0	12.0	+ 18 17	52	14.6		
0	12.4	+ 16 33		15.4		
0	12.8	+ 15 57		15.7		
0	12.8	+ 18 30		15.6		
0	12.9	+ 17 03	57	13.7		
0	13.1	+ 19 39		15.7		
0	13.2	+ 15 48		14.0		
0	13.2	+ 19 30		15.0		
0	13.2	+ 19 44		15.4		double system
0	13.9	+ 15 55		15.7		
0	14.6	+ 17 09		15.6		
0	14.8	+ 17 47		15.2		
0	15.7	+ 19 06		14.8		
0	15.8	+ 18 14		15.3		
0	16.5	+ 19 07		15.4		
0	16.8	+ 16 35		15.6		
0	17.2	+ 18 05		15.6		
0	17.3	+ 19 42		15.5		
0	17.4	+ 19 07		15.6		
0	17.4	+ 19 43		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
7814	-	-	11.76	Sa	11.7	Sa	-	-





FIELD No. 457

0^h29^m + 18°30'

Survey Plate No. 903

GC STARS

Nos.	R.A.			Decl.			m _p
	h	m	s	°	'	"	
398	0	17	21.0	+	15	58 25	6.77
511	0	23	27.4	+	19	52 12	6.57
598	0	28	11.1	+	15	45 41	6.94
641	0	29	57.9	+	20	01 09	5.53
826	0	39	03.7	+	19	51 49	7.7
846	0	40	15.5	+	16	23 22	6.65

CLUSTERS OF GALAXIES

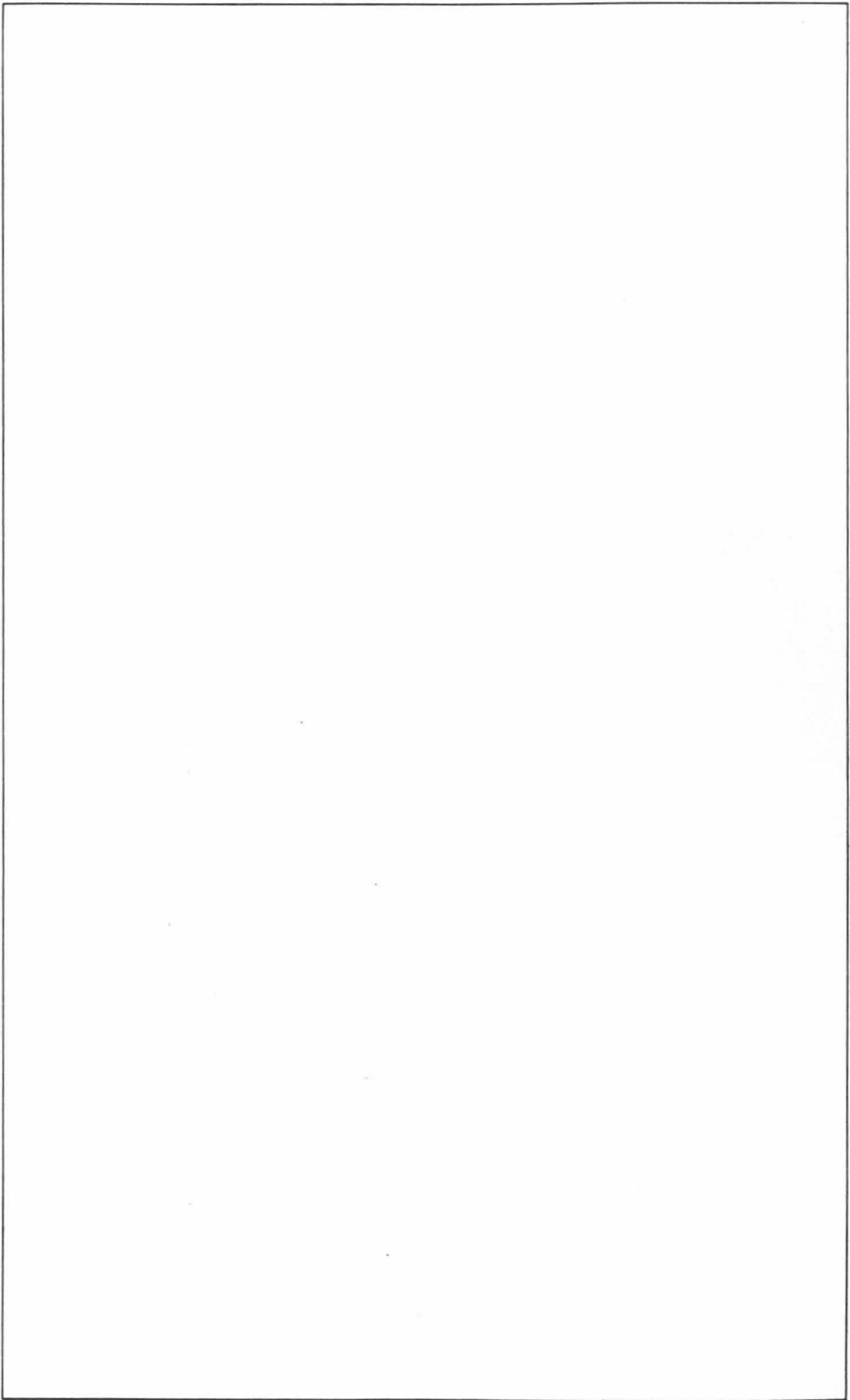
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0013.4 + 1805	open	135	12.7	Near	3
0014.5 + 2315	open	245	23.6	Near	4
0017.3 + 1711	open	74	1.6	ED	2
0024.0 + 1652	compact	30	0.5	ED	28
0024.0 + 1922	medium compact	84	4.0	D	23
0025.1 + 1653	compact	40	0.9	ED	27
0026.3 + 1616	compact	168	4.0	VD	26
0026.3 + 1719	medium compact	142	4.6	D	25
0027.7 + 1822	medium compact	131	3.8	VD	22
0029.5 + 1750	compact	45	0.7	ED	21
0030.6 + 1722	medium compact	111	2.9	VD	24
0030.8 + 1806	open	137	4.0	ED	20
0032.9 + 2008	compact	87	2.3	VD	19
0033.3 + 2028	compact	55	1.1	ED	18
0034.4 + 2117	medium compact	52	0.9	ED	12
0034.5 + 1903	medium compact	272	5.9	VD	17
0034.9 + 1802	medium compact	124	4.1	VD	16
0035.4 + 2015	open	94	4.4	VD	13
0036.1 + 2035	compact	55	1.3	ED	11
0036.4 + 2055	medium compact	86	3.5	Near	10
0036.6 + 2129	compact	124	2.4	ED	5
0037.8 + 1802	compact	146	4.4	VD	15
0038.7 + 2107	compact	129	3.6	MD	9
0038.8 + 1950	medium compact	109	4.1	D	14
0039.6 + 1458	open	119	6.1	D	1
0040.9 + 1937	open	81	2.8	VD	7
0041.1 + 2027	medium compact	95	4.0	VD	8
0041.5 + 1805	open	110	6.1	MD	6

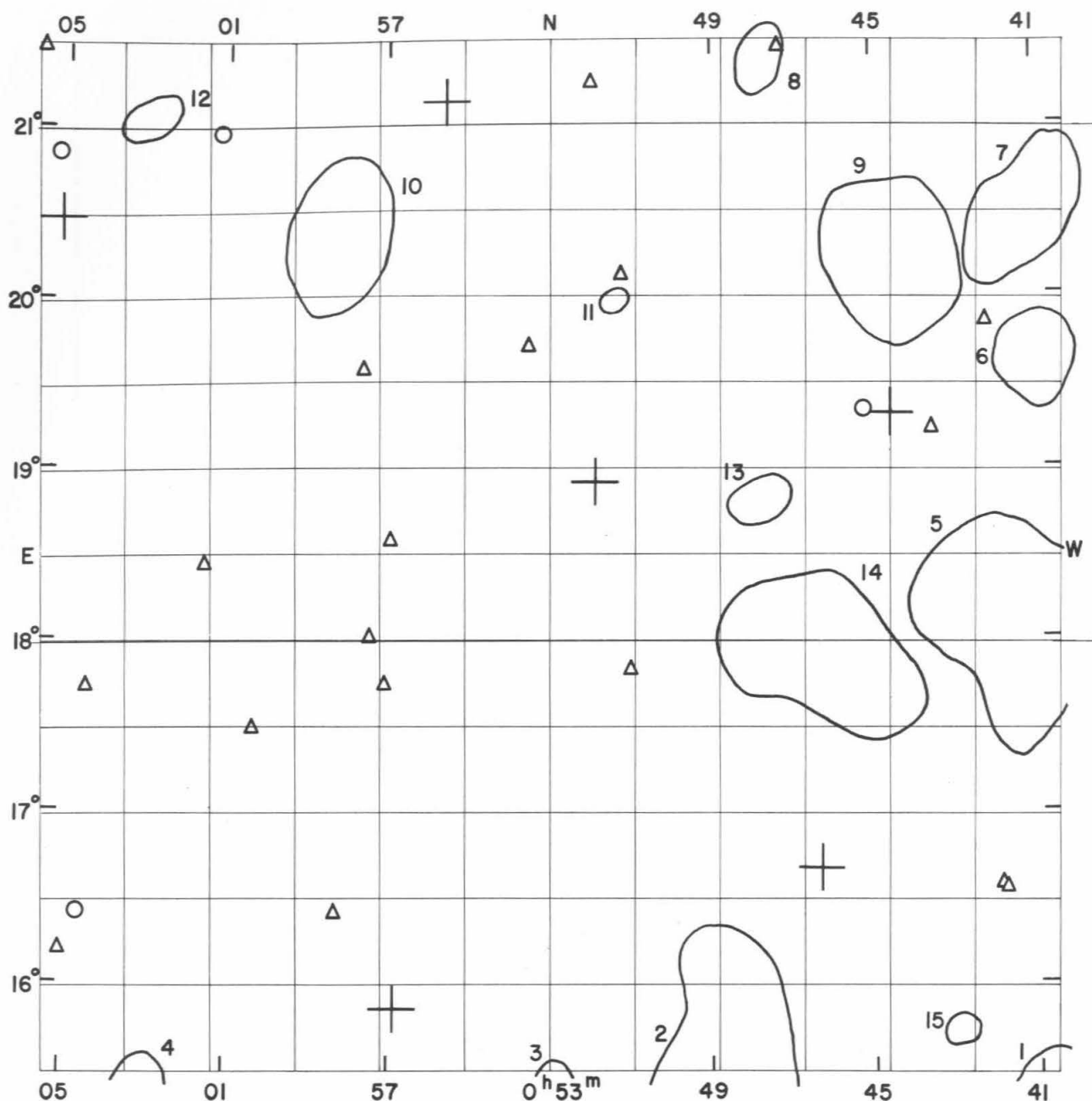
Average number of galaxies per cluster = 110.0

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
0	16.5	+19 07		15.4		
0	16.8	+16 35		15.6		
0	17.2	+18 05		15.6		
0	17.3	+19 42		15.5		
0	17.4	+19 07		15.6		
0	17.4	+19 43		15.7		
0	18.2	+19 45		15.1		
0	18.2	+21 15		15.3		
0	18.8	+17 03		15.6		
0	20.4	+15 58		15.7		
0	21.4	+15 30	99	14.0		
0	21.5	+16 12	100	14.6		
0	22.2	+20 48		15.5		
0	22.8	+19 56		14.3		
0	23.1	+17 06		15.7		
0	23.6	+16 08		15.6		
0	24.7	+19 47		15.2		
0	27.0	+21 12	1552*	15.4		
0	30.9	+19 40		15.5		
0	33.5	+21 12		15.6		

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
0	34.0	+	21 20		15.6		double system
0	34.1	+	21 17		14.5		
0	35.2	+	17 06		15.6		
0	37.2	+	20 56		15.3		
0	37.6	+	20 48		15.7		double system
0	38.6	+	16 12	213	14.8		





FIELD No. 458

$0^h 53^m + 18^\circ 30'$

Survey Plate No. 930

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
938	0	44	34.8	+	19	18 21	6.06
968	0	46	20.8	+	16	40 16	5.23
1084	0	51	56.1	+	18	55 03	5.76
1160	0	55	38.8	+	21	08 05	6.41
1187	0	56	56.8	+	15	50 44	8.6
1370	1	05	15.9	+	20	28 26	5.63

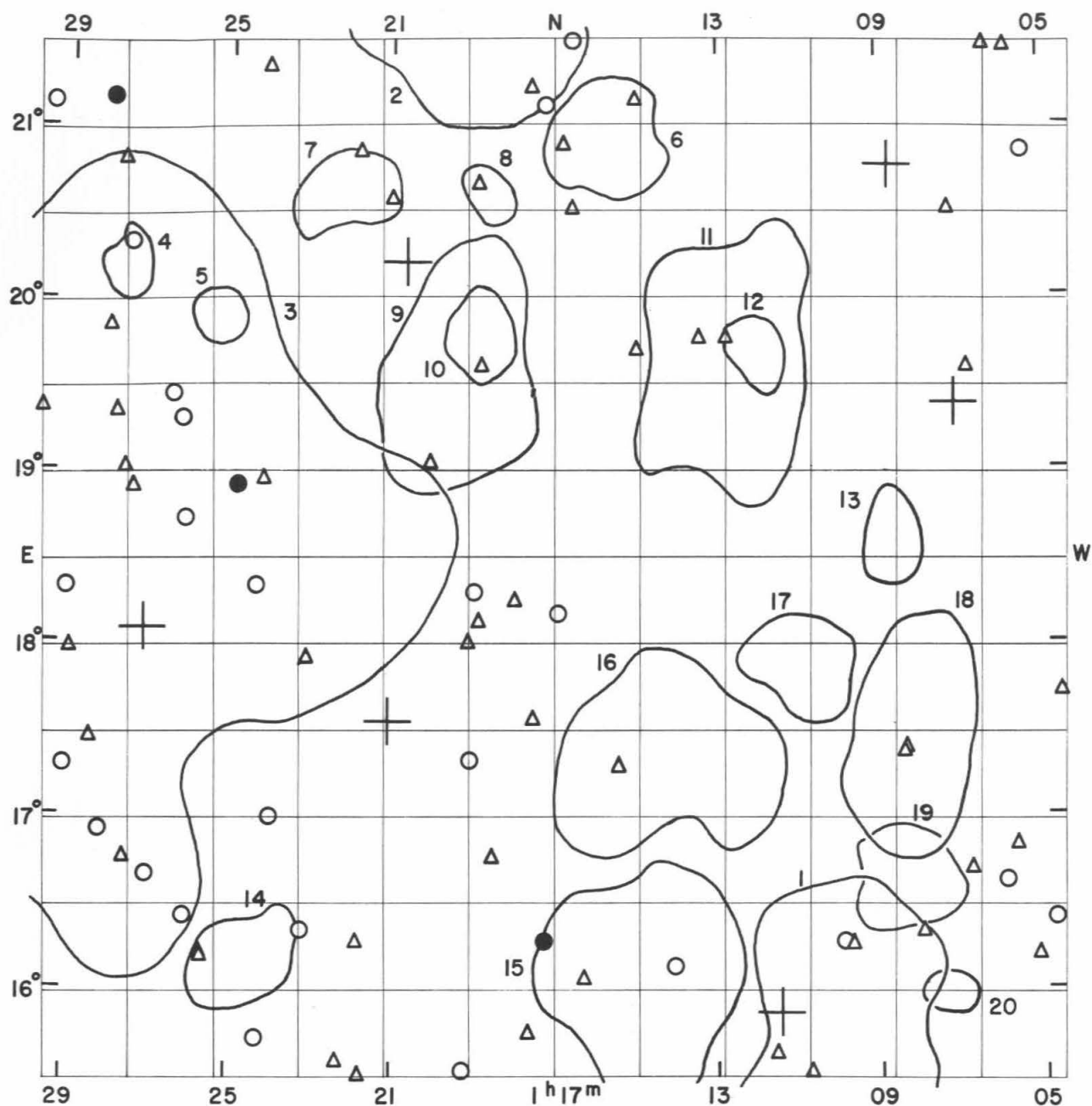
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0039.6 + 1458	open	119	6.1	D	1
0040.9 + 1937	open	81	2.8	VD	6
0041.1 + 2027	medium compact	95	4.0	VD	7
0041.5 + 1805	open	110	6.1	MD	5
0043.0 + 1543	compact	40	1.0	ED	15
0044.4 + 2012	compact	231	4.8	D	9
0046.3 + 1753	open	112	5.4	D	14
0047.7 + 2122	open	70	1.8	ED	8
0047.8 + 1848	compact	73	1.6	VD	13
0048.5 + 1540	medium compact	106	5.3	MD	2
0051.3 + 1957	compact	60	0.8	ED	11
0053.8 + 1459	open	85	4.9	VD	3
0058.1 + 2020	open	97	4.1	D	10
0102.9 + 2102	medium compact	66	1.6	ED	12
0103.0 + 1519	medium compact	84	2.4	ED	4

Average number of galaxies per cluster = 95.3

GALAXIES

Position α 1950 δ	NGC IC*	m _p	V _s km/sec	Remarks
h m o				
0 41.9 + 16 32		15.3		
0 42.0 + 16 34		15.7		
0 42.3 + 19 49		15.4		compact
0 43.6 + 19 13		15.4		
0 45.2 + 19 18	251	14.6		
0 47.3 + 21 26		15.3		
0 51.0 + 17 48		15.7		
0 51.2 + 20 07		15.6		
0 52.0 + 21 15	1596*	15.1		
0 53.6 + 19 42		15.6		
0 57.0 + 18 35		15.5		
0 57.1 + 17 45		15.2		
0 57.5 + 18 01		15.5		
0 57.7 + 19 34		15.4		
0 58.4 + 16 25		15.5		
1 00.4 + 17 29		15.5		double system
1 01.2 + 20 58		15.0		compact
1 01.6 + 18 26		15.5		
1 04.5 + 17 43		15.7		
1 04.7 + 16 25		14.5		diffuse
1 05.2 + 16 11		15.5		
1 05.3 + 20 50		15.0		
1 05.7 + 21 28		15.7		



FIELD No. 459

$1^{\text{h}}17^{\text{m}} + 18^{\circ}30'$

Survey Plate No. 1251

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
1404	1	07	08.5	+	19	23 32	5.60
1437	1	08	45.6	+	20	46 09	4.89
1482	1	11	28.0	+	15	52 10	5.85
1677	1	20	42.5	+	20	12 30	6.30
1686	1	21	09.3	+	17	33 30	6.81
1807	1	27	10.6	+	18	05 52	5.96

CLUSTERS OF GALAXIES

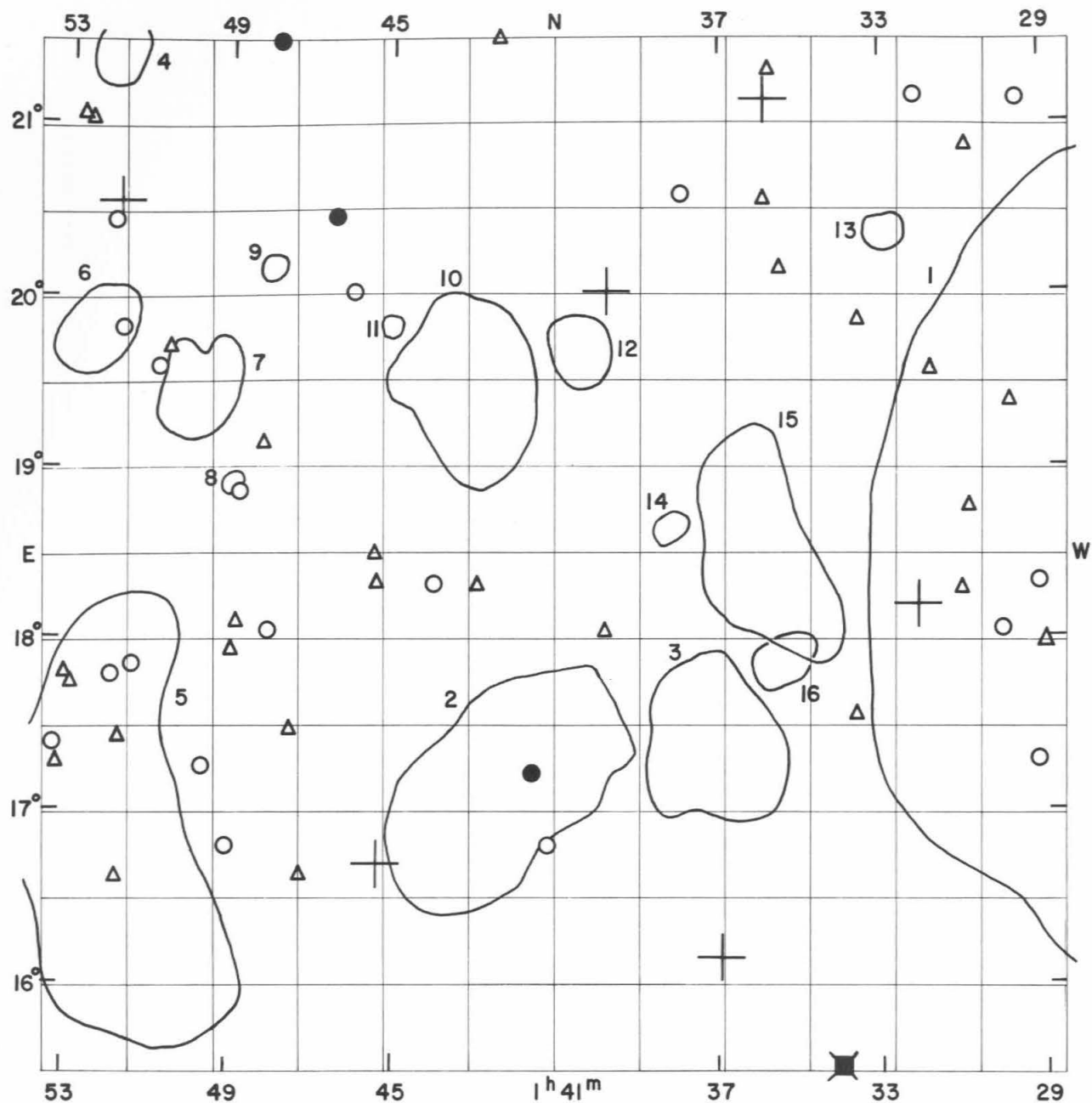
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0107.3 + 1558	medium compact	79	1.4	ED	20
0108.2 + 1726	compact	184	5.7	MD	18
0108.3 + 1637	medium compact	59	3.4	D	19
0108.6 + 1834	medium compact	118	2.4	ED	13
0110.5 + 1515	medium compact	254	10.3	Near	1
0110.9 + 1751	medium compact	83	3.4	D	17
0112.0 + 1941	compact	112	2.1	VD	12
0112.7 + 1936	open	138	6.8	MD	11
0114.3 + 1717	open	121	6.6	D	16
0114.8 + 1604	medium compact	126	6.8	MD	15
0115.5 + 2054	medium compact	127	3.8	VD	6
0118.6 + 2035	medium compact	86	1.6	ED	8
0118.7 + 1946	compact	182	2.5	ED	10
0119.1 + 2204	open	102	9.6	MD	2
0119.2 + 1932	open	100	6.2	MD	9
0122.0 + 2035	medium compact	158	3.0	ED	7
0124.6 + 1610	medium compact	75	3.2	D	14
0125.2 + 1954	medium compact	81	1.8	ED	5
0127.4 + 2011	medium compact	90	1.7	ED	4
0127.6 + 1828	medium compact	227	18.8	Near	3

Average number of galaxies per cluster = 125.1

GALAXIES

h	Position			NGC IC*	m_p	V_s km/sec	Remarks
	a	1950	δ				
	m		o				
1	04.5		+ 17 43		15.7		
1	04.7		+ 16 25		14.5		diffuse
1	05.2		+ 16 11		15.5		
1	05.3		+ 20 50		15.0		
1	05.7		+ 16 49		15.7		
1	05.7		+ 21 28		15.7		
1	05.9		+ 16 37		14.9		
1	06.2		+ 21 28		15.7		
1	06.8		+ 16 41		15.2		double system
1	06.8		+ 19 35		15.1		
1	07.2		+ 20 30		15.7		
1	08.0		+ 16 20		15.7		very diffuse
1	08.4		+ 17 22	1635*	15.7		multiple system
1	08.4		+ 17 23	1634*	15.7		multiple system
1	09.7		+ 16 15		15.2		double system
1	09.8		+ 16 16		15.0		double system
1	10.7		+ 15 31		15.7		
1	11.6		+ 15 37		15.2		
1	12.8		+ 19 46		15.5		
1	13.4		+ 19 45		15.5		
1	14.1		+ 16 08		14.7		
1	15.0		+ 19 41		15.7		
1	15.0		+ 21 09		15.7		
1	15.4		+ 17 17	459	15.7		diffuse
1	16.3		+ 16 03	463	15.2		
1	16.5		+ 21 29		15.0		
1	16.6		+ 20 31		15.6		
1	16.7		+ 20 53		15.6		

Position				NGC IC*	m_p	V_s km/sec	Remarks
α	1950	δ					
h	m	o	'				
1	16.9	+ 18	10		14.7		
1	17.2	+ 16	17	473	13.2		$m_H = 13.1$
1	17.2	+ 21	06		15.0		
1	17.5	+ 17	33		15.6		
1	17.6	+ 15	45	476	15.2		compact
1	17.6	+ 21	13		15.2		
1	18.0	+ 18	15		15.6		
1	18.6	+ 16	46		15.6		ellipsical compact
1	18.8	+ 19	36		15.7		
1	18.8	+ 20	39		15.2		
1	18.9	+ 18	07		15.5		compact
1	19.0	+ 18	18		15.0		
1	19.1	+ 17	20		14.7		
1	19.1	+ 18	00		15.3		
1	19.3	+ 15	31		15.0		
1	20.1	+ 19	02		15.6		diffuse
1	21.0	+ 20	34		15.7		
1	21.8	+ 15	30		15.7		
1	21.8	+ 20	50		15.5		
1	21.9	+ 16	17		15.4		
1	22.3	+ 15	35		15.4		
1	23.1	+ 17	55	1701*	15.3		very compact
1	23.2	+ 16	20	1702*	14.5		
1	24.0	+ 17	00		15.0		
1	24.1	+ 21	21		15.7		double system
1	24.2	+ 18	57	115*	15.5		
1	24.3	+ 15	43		15.0		
1	24.4	+ 18	20		15.0		
1	24.8	+ 18	55		13.8		
1	25.7	+ 16	11		15.2		
1	25.7	+ 16	13		15.5		
1	26.1	+ 16	25		15.0		
1	26.2	+ 18	43		14.9		
1	26.3	+ 19	18		14.9		
1	26.4	+ 19	26		14.8		
1	27.1	+ 16	40		15.0		
1	27.4	+ 18	55		15.4		
1	27.5	+ 20	20		14.9		triple system
1	27.6	+ 16	46		15.5		
1	27.6	+ 19	02		15.4		
1	27.7	+ 20	50		15.7		
1	27.8	+ 19	21		15.5		
1	28.0	+ 19	51		15.5		
1	28.1	+ 21	11	1710*	13.8		
1	28.2	+ 16	56	1711*	14.8		
1	28.5	+ 17	28		15.6		
1	28.9	+ 18	00		15.7		compact
1	29.1	+ 17	19		14.8		triple system, bridge
1	29.1	+ 18	20		15.0		
1	29.5	+ 21	10		14.8		
1	29.7	+ 19	23		15.3		compact



FIELD No. 460
 $1^{\text{h}}41^{\text{m}} + 18^{\circ}30'$
 Survey Plate No. 1275

GC STARS

Nos.	R.A.			Decl.	m_p
	h	m	s	° ' "	
1900	1	32	06.4	+ 18 12 21	6.05
1980	1	35	52.7	+ 21 08 40	6.86
2007	1	36	58.6	+ 16 09 10	6.11
2080	1	39	46.6	+ 20 01 34	5.32
2188	1	45	27.9	+ 16 42 26	5.73
2309	1	51	52.3	+ 20 33 52	2.72

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0127.6 + 1828	medium compact	227	18.8	Near	1
0132.8 + 2022	compact	52	1.2	ED	13
0135.3 + 1751	medium compact	65	1.8	VD	16
0135.8 + 1830	medium compact	83	5.2	MD	15
0137.0 + 1721	open	68	4.8	D	3
0138.1 + 1839	compact	74	1.0	ED	14
0140.2 + 1940	medium compact	64	2.1	VD	12
0142.4 + 1706	medium compact	188	7.0	MD	2
0143.1 + 1928	medium compact	117	4.9	VD	10
0145.0 + 1948	compact	45	0.6	ED	11
0147.9 + 2009	compact	41	0.8	ED	9
0148.9 + 1855	compact	35	0.6	ED	8
0149.8 + 1927	medium compact	118	3.0	ED	7
0151.8 + 1645	open	140	9.2	MD	5
0151.9 + 2125	medium compact	88	1.9	ED	4
0152.3 + 1947	open	116	2.7	ED	6

Average number of galaxies per cluster = 95.1

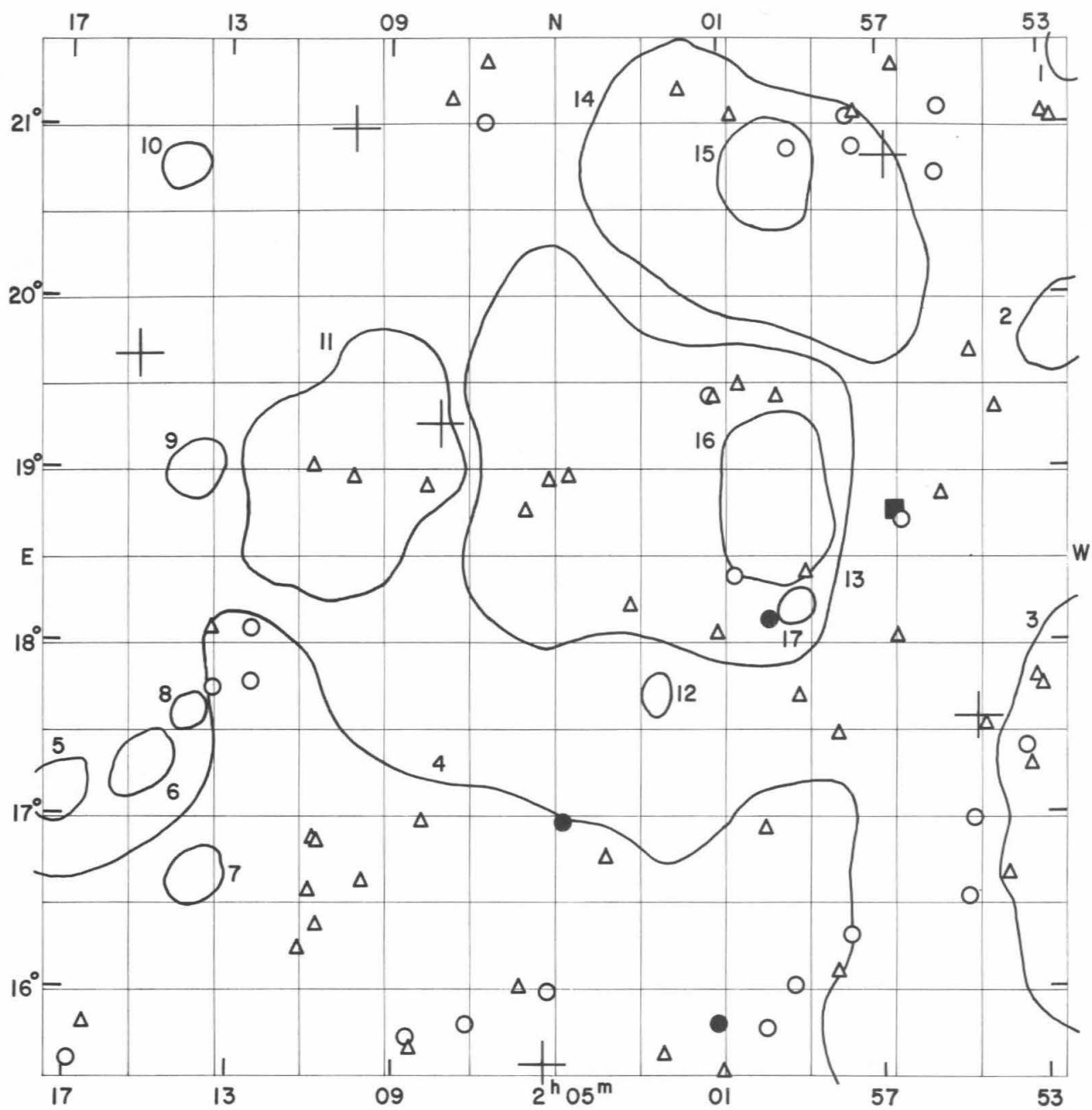
GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	i				
1	28.9	+ 18	00		15.7		compact
1	29.1	+ 17	19		14.8		triple system, bridge
1	29.1	+ 18	20		15.0		
1	29.5	+ 21	10		14.8		
1	29.7	+ 19	23		15.3		compact
1	30.0	+ 18	04		14.3		
1	30.8	+ 18	46		15.6		diffuse
1	30.8	+ 20	52		15.5		
1	31.0	+ 18	18		15.7		diffuse
1	31.7	+ 19	34		15.3		
1	32.1	+ 21	10	606	14.5		
1	33.5	+ 19	51		15.6		compact
1	33.6	+ 17	34		15.5		very compact
1	34.0	+ 15	32	628	10.5	+ 561	m _H = 11.2 Sc
1	35.5	+ 20	10		15.5		
1	35.8	+ 21	19		15.7		
1	35.9	+ 20	33		15.7		double system
1	38.0	+ 20	35		14.9		
1	39.8	+ 18	03		15.3		
1	41.2	+ 16	48		14.7		
1	41.6	+ 17	13		13.6		
1	42.4	+ 21	31	1725*	15.3		
1	42.9	+ 18	19		15.7		
1	44.0	+ 18	19		15.0		
1	45.4	+ 18	20		15.7		
1	45.5	+ 18	30		15.2		
1	46.0	+ 20	00		14.5		double galaxy
1	46.5	+ 20	27	163*	13.8		
1	47.3	+ 16	38		15.6		compact
1	47.6	+ 17	28		15.7		compact
1	47.9	+ 21	30	691	13.5		
1	48.2	+ 18	03	1736*	15.0		
1	48.3	+ 19	07		15.7		

Position			NGC IC*	m _p	V _s km/sec	Remarks
α 1950	δ					
h m	o '					
1 48.8	+18 51			14.6		
1 49.0	+18 05			15.7		
1 49.1	+16 48			14.7		
1 49.1	+17 55			15.7		very diffuse
1 49.7	+17 16		711	14.5		
1 50.6	+19 42			15.4		
1 50.9	+19 35		719=1744*	14.7		
1 51.5	+17 51			14.9		
1 51.7	+17 25			15.1		
1 51.8	+16 37			15.7		diffuse
1 51.8	+19 49			15.0		diffuse
1 52.0	+17 48			15.0		
1 52.0	+20 27		722	14.6		
1 52.6	+21 02			15.6		
1 52.8	+21 05			15.1		
1 53.0	+17 45			15.2		
1 53.1	+17 48			15.1		
1 53.3	+17 17			15.7		
1 53.4	+17 24		1748*	14.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
628	9.5	Sc	10.29	Sc	9.8	Sc	9.74	Sc-



FIELD No. 461

$2^{\text{h}}05^{\text{m}} + 18^{\circ}30'$

Survey Plate No. 1202

GC STARS

Nos.	R.A.			Decl.	m_p
	h	m	s		
2347	1	54	36.8	+ 17 34 27	5.16
2398	1	56	48.8	+ 20 48 59	6.06
2550	2	05	20.2	+ 15 34 05	7.49
2601	2	07	51.0	+ 19 15 56	5.92
2643	2	09	59.8	+ 20 58 37	5.35
2767	2	15	20.3	+ 19 40 15	5.69

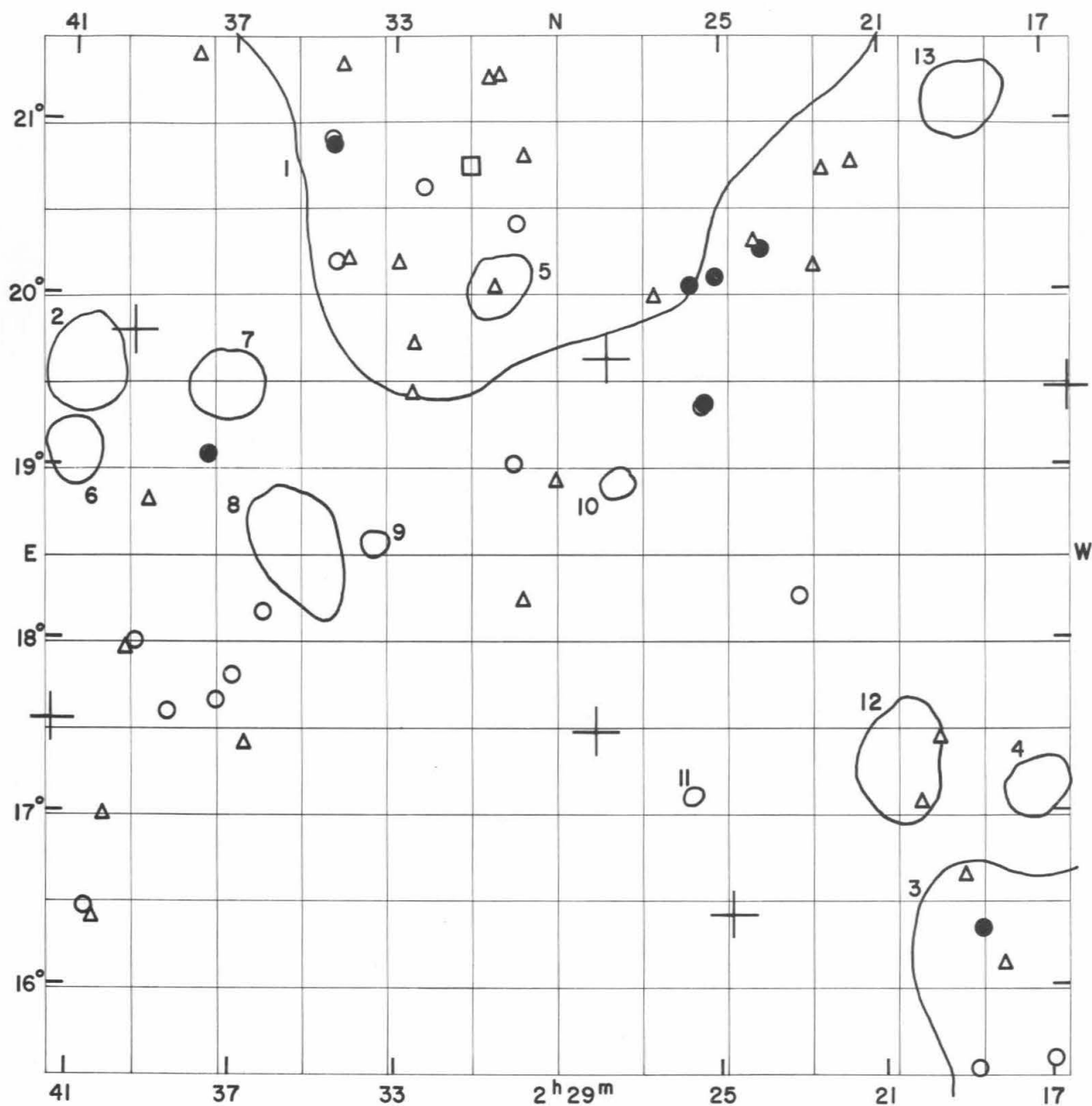
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0151.8 + 1645	open	140	9.2	MD	3
0151.9 + 2125	medium compact	88	1.9	ED	1
0152.3 + 1947	open	116	2.7	ED	2
0159.1 + 1812	compact	70	1.1	ED	17
0159.5 + 1850	medium compact	85	4.5	D	16
0159.6 + 2043	medium compact	79	3.3	VD	15
0200.0 + 2032	open	87	9.7	MD	14
0202.5 + 1741	compact	53	1.1	ED	12
0202.6 + 1852	open	146	12.2	Near	13
0208.0 + 1515	open	430	27.0	Near	4
0210.1 + 1857	medium compact	120	7.3	MD	11
0213.7 + 1637	compact	98	1.8	ED	7
0213.8 + 1859	medium compact	68	1.8	VD	9
0213.9 + 1734	medium compact	59	1.1	ED	8
0214.2 + 2045	medium compact	61	1.5	ED	10
0215.0 + 1716	compact	78	1.9	VD	6
0217.3 + 1707	medium compact	73	2.0	ED	5

Average number of galaxies per cluster = 108.9

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
1	52.6	+21 02		15.6		
1	52.8	+21 05		15.1		
1	53.0	+17 45		15.2		
1	53.1	+17 48		15.1		
1	53.3	+17 17		15.7		
1	53.4	+17 24	1748*	14.7		
1	53.8	+16 40		15.7		
1	54.1	+19 21		15.7		diffuse
1	54.4	+17 32		15.2		
1	54.7	+16 58		14.8		
1	54.7	+19 41		15.7		
1	54.8	+16 32		14.7		
1	55.4	+18 52		15.1		
1	55.4	+21 06		14.8		
1	55.6	+20 44		15.0		
1	56.4	+18 43	770	14.2		
1	56.5	+18 02		15.7		
1	56.5	+18 46	772	11.3	+2431	m _H = 12.0 Sb
1	56.6	+21 20		15.6		
1	57.5	+21 04		15.7		
1	57.6	+20 52		14.6		peculiar
1	57.8	+16 19		14.9		
1	57.8	+21 03		14.1		
1	58.1	+16 06		15.7		
1	58.1	+17 29		15.6		
1	58.8	+18 25		15.7		very diffuse
1	59.0	+17 41		15.6		
1	59.1	+16 01		14.6		
1	59.2	+20 52		14.7		
1	59.6	+19 25		15.7		
1	59.7	+18 08	794=191*	14.0		



FIELD No. 462

$2^{\text{h}}29^{\text{m}} + 18^{\circ}30'$

Survey Plate No. 443

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	o	i	"	
2790	2	16	21.6	+	19	27 36	6.84
2949	2	24	46.5	+	16	25 13	7.26
3003	2	27	49.9	+	19	38 03	6.14
3009	2	28	07.7	+	17	29 01	6.41
3256	2	39	32.5	+	19	47 59	5.72
3294	2	41	31.4	+	17	33 13	6.47

CLUSTERS OF GALAXIES

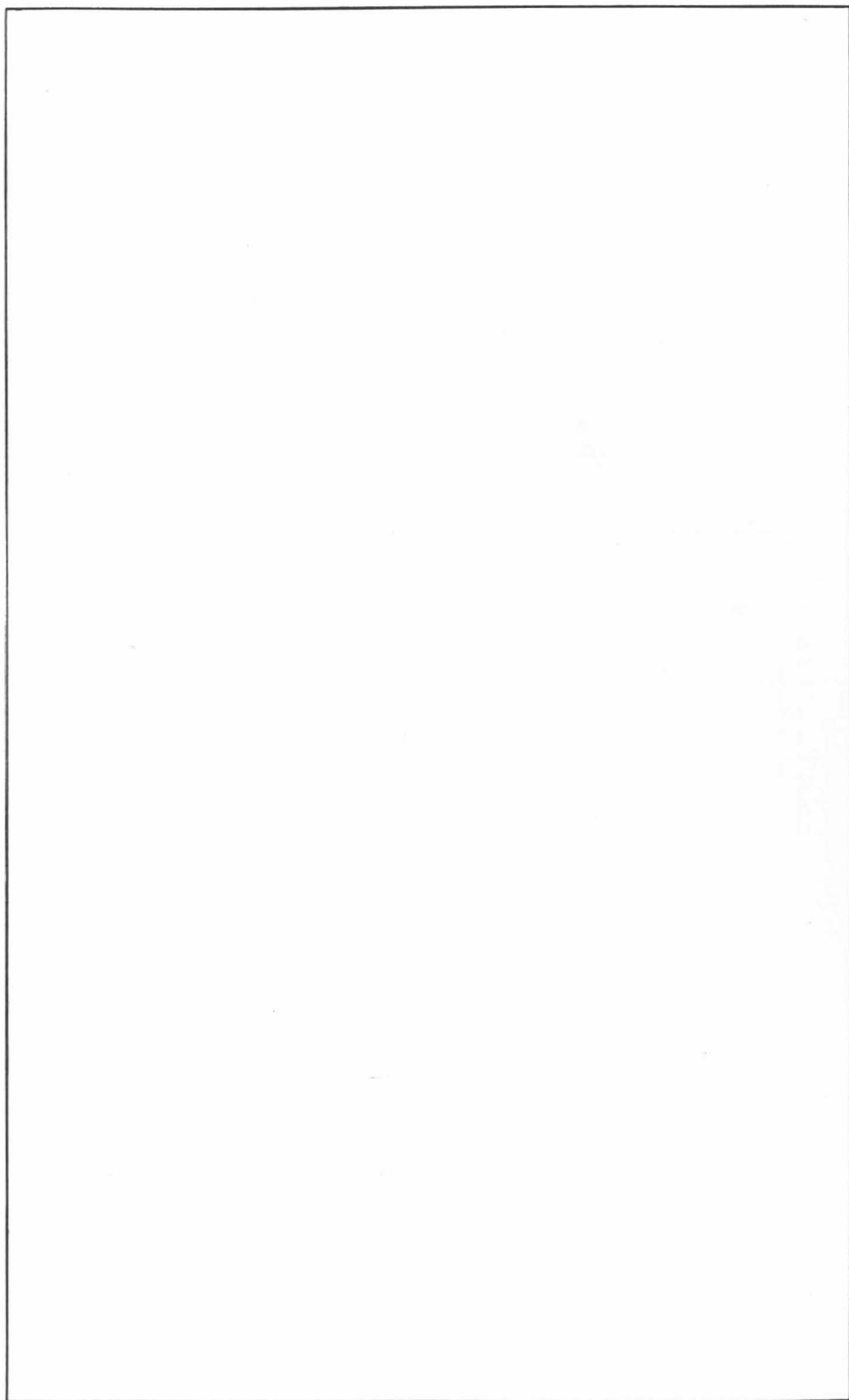
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0208.0 + 1515	open	430	27.0	Near	3
0217.3 + 1707	medium compact	73	2.0	ED	4
0218.8 + 2106	compact	150	2.4	ED	13
0220.6 + 1716	medium compact	98	3.2	VD	12
0225.7 + 1706	compact	45	0.5	ED	11
0226.0 + 2600	open	1184	50.0	Near	1
0227.5 + 1853	compact	65	0.9	ED	10
0230.4 + 2002	compact	81	1.9	VD	5
0233.5 + 1833	compact	37	0.7	ED	9
0235.3 + 1832	medium compact	124	3.4	D	8
0237.1 + 1927	compact	102	2.1	ED	7
0240.6 + 1933	open	111	2.9	D	2
0240.9 + 1905	medium compact	64	1.9	ED	6

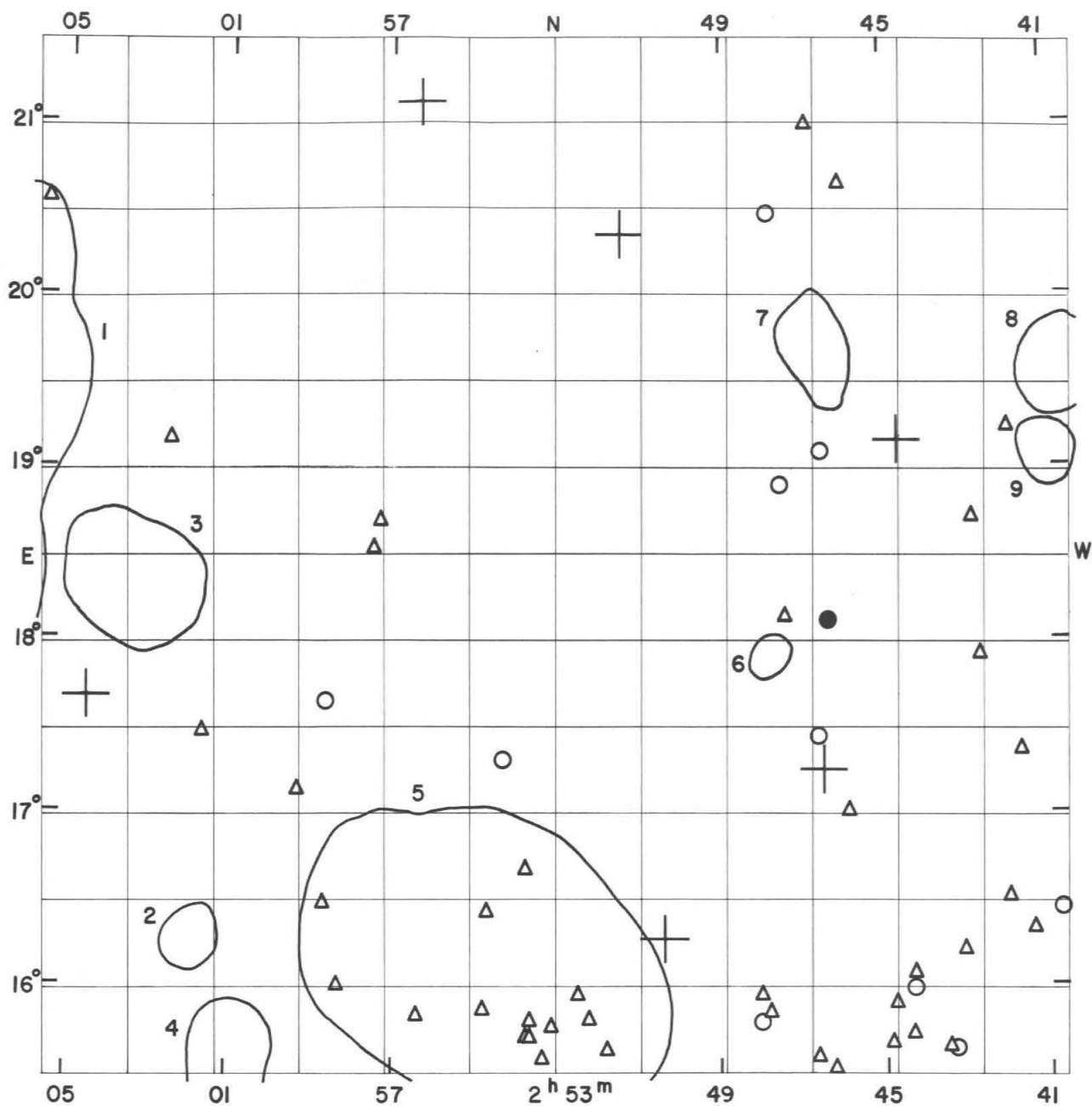
Average number of galaxies per cluster = 197.2

GALAXIES

Position a 1950 δ h m o r				NGC IC*	m_p	V_s km/sec	Remarks
2 16.9	+	15 35		882	14.9		
2 18.1	+	16 07			15.7		
2 18.6	+	16 20			14.0		
2 18.7	+	15 31		1794*	15.0		
2 19.0	+	16 39			15.7		
2 19.6	+	17 26			15.4		
2 20.1	+	17 04			15.7		diffuse
2 21.7	+	20 46			15.7		
2 22.4	+	20 44			15.7		
2 22.7	+	20 10		1797*	15.3		
2 23.1	+	18 16		918	14.3		
2 24.0	+	20 16		924	13.8		
2 24.1	+	20 18			15.7		
2 25.1	+	20 06		930=932	13.7		
2 25.4	+	19 21		1801*	14.8		partially eclipsed by NGC 935
2 25.4	+	19 22		935	13.9		
2 25.7	+	20 03		938	13.8		
2 26.6	+	20 00			15.7		very diffuse
2 29.1	+	18 55			15.1		
2 29.8	+	20 48			15.1		
2 29.9	+	18 15			15.6		
2 30.0	+	20 25		235*	14.5		
2 30.1	+	19 02			14.9		
2 30.4	+	21 17			15.7		
2 30.6	+	20 03			15.5		
2 30.7	+	21 16			15.7		
2 31.2	+	20 45		976	12.9		$m_H = 12.7$ S
2 32.3	+	20 38			15.0		
2 32.6	+	19 26			15.4		very compact
2 32.6	+	19 43			15.6		
2 32.9	+	20 11			15.7		
2 34.2	+	20 13			15.7		compact
2 34.4	+	21 21			15.5		
2 34.5	+	20 12			15.0		
2 34.6	+	20 53		992	13.5		

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
2	34.7	+ 20 56		15.0		extremely compact
2	36.3	+ 18 10		14.6		peculiar double system
2	36.7	+ 17 25		15.5		
2	37.1	+ 17 49	1030	14.5		
2	37.4	+ 17 40		14.9		
2	37.6	+ 19 05	1036=1828*=1829*	13.5		
2	38.0	+ 21 23		15.5		
2	38.6	+ 17 35	248*	14.4		
2	39.1	+ 18 49	1832*	15.1		very compact
2	39.4	+ 18 00	1054	14.6		
2	39.6	+ 17 57		15.5		very compact
2	40.2	+ 17 00		15.7		
2	40.4	+ 16 24		15.3		
2	40.6	+ 16 27		14.8		double system





FIELD No. 463

$2^{\text{h}} 53^{\text{m}} + 18^{\circ} 30'$

Survey Plate No. 425

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
3352	2	44	37.8	+	19	09 57	7.3
3378	2	46	29.8	+	17	15 27	5.30
3456	2	50	24.3	+	16	16 50	6.38
3481	2	51	26.8	+	20	21 46	7.05
3582	2	56	20.8	+	21	08 30	4.64
3728	3	04	36.5	+	17	41 18	6.09

CLUSTERS OF GALAXIES

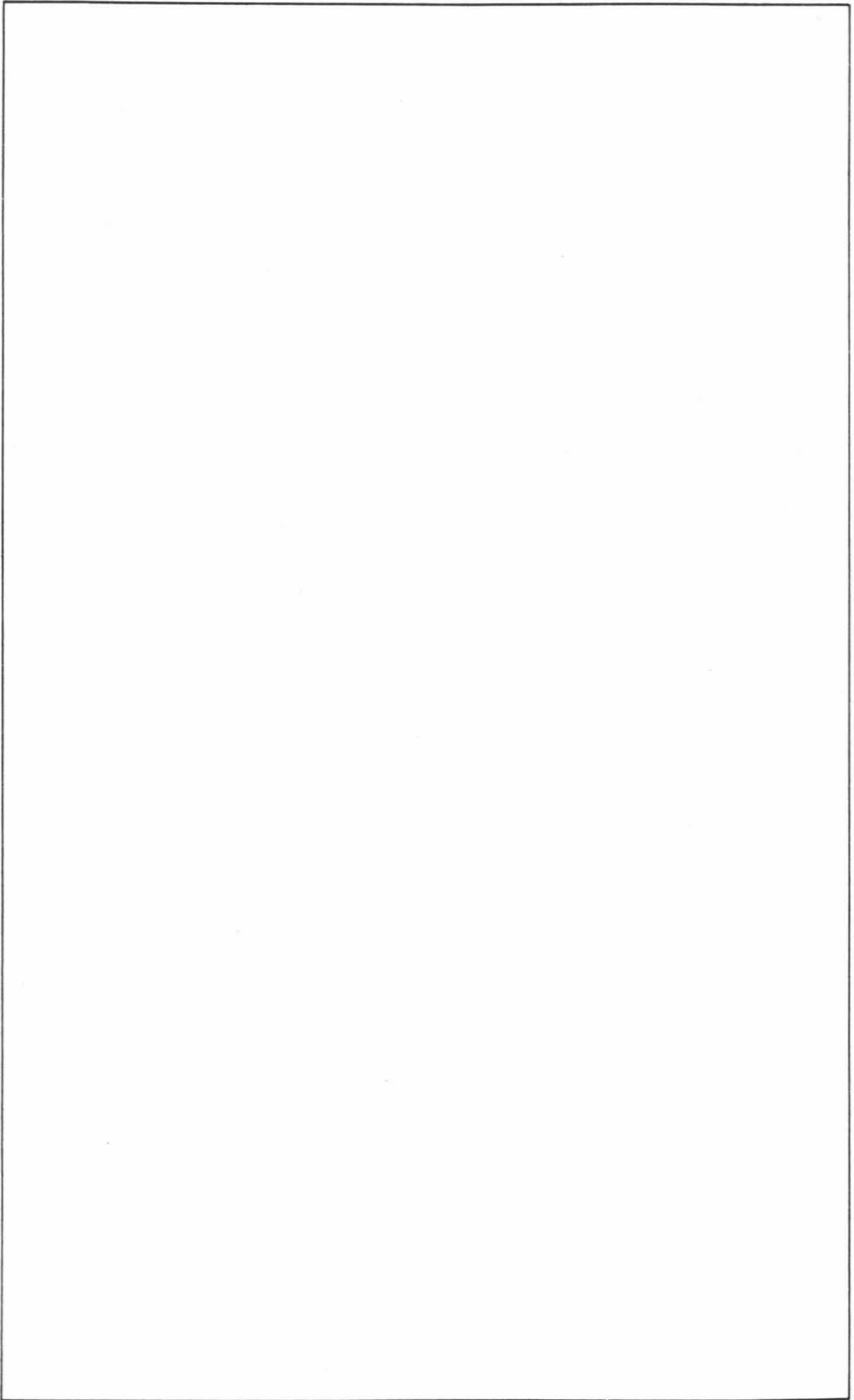
Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0240.6 + 1933	open	111	2.9	D	8
0240.9 + 1905	medium compact	64	1.9	ED	9
0246.6 + 1942	medium compact	81	2.8	VD	7
0247.8 + 1754	medium compact	55	1.3	VD	6
0254.7 + 1606	medium compact	183	10.5	Near	5
0300.9 + 1533	open	109	3.5	MD	4
0301.9 + 1617	compact	59	1.9	VD	2
0303.3 + 1821	open	62	4.5	D	3
0307.7 + 1907	medium compact	117	10.5	Near	1

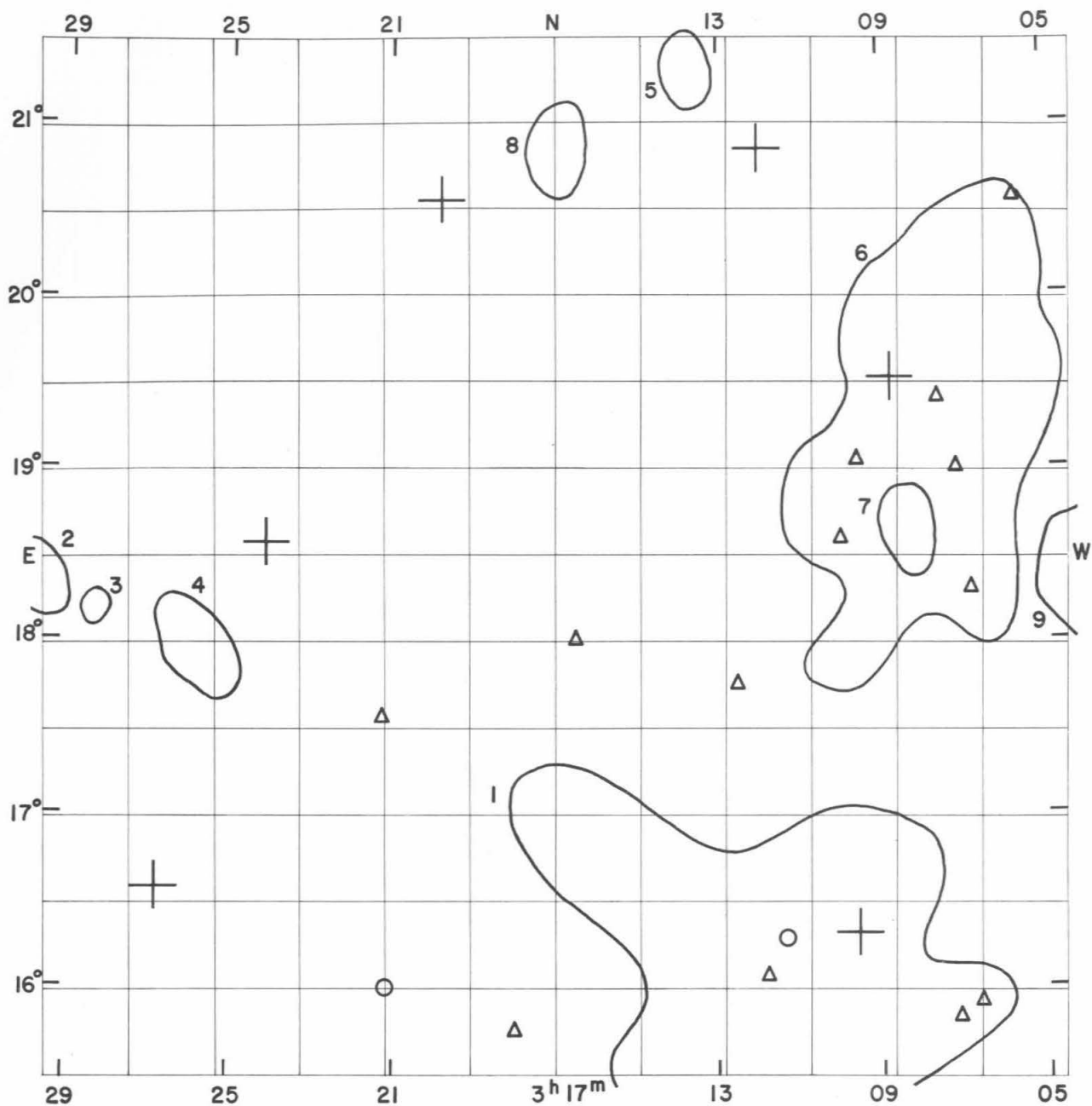
Average number of galaxies per cluster = 93.4

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
h	m	s				
2	40.6	+ 16 27		14.8		double system
2	41.3	+ 16 20		15.4		
2	41.6	+ 17 22		15.5		
2	41.9	+ 16 31		15.6		
2	41.9	+ 19 15	1838*	15.2		
2	42.6	+ 17 55		15.4		peculiar
2	42.8	+ 18 43	1841*	15.1		
2	43.0	+ 16 12		15.6		
2	43.3	+ 15 38		14.8		peculiar double system
2	43.4	+ 15 38		15.7		
2	44.2	+ 15 59	1088	14.8		double system
2	44.2	+ 16 04	255*	15.7		
2	44.3	+ 15 43		15.7		very compact compact
2	44.7	+ 15 54		15.4		
2	44.8	+ 15 40		15.7		
2	45.9	+ 17 00		15.3		
2	46.0	+ 20 39		15.4		compact
2	46.2	+ 15 31		15.4		
2	46.4	+ 18 07		13.1		extremely compact
2	46.5	+ 19 05	1854*	15.0		
2	46.6	+ 17 27		14.5		
2	46.7	+ 15 35		15.6		
2	46.8	+ 21 00		15.6		
2	47.4	+ 18 09		15.7		
2	47.5	+ 18 55		14.8		
2	47.8	+ 15 51		15.7		
2	47.8	+ 20 29		15.0		
2	48.0	+ 15 48		15.0		
2	48.0	+ 15 57		15.7		
2	51.8	+ 15 38		15.7		
2	52.2	+ 15 49		15.1		
2	52.5	+ 15 58		15.5		compact
2	53.1	+ 15 46		15.4		
2	53.3	+ 15 35		15.7		
2	53.6	+ 15 43		15.2		compact
2	53.6	+ 15 49		15.7		
2	53.7	+ 15 43		15.7		
2	53.7	+ 16 41		15.7		
2	54.3	+ 17 19		14.6		

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o ' "				
2	54.7	+ 16 26		15.6		
2	54.8	+ 15 52		15.7		
2	56.4	+ 15 50		15.6		
2	57.3	+ 18 42		15.5		
2	57.5	+ 18 33		15.5		
2	58.4	+ 16 01	279*	15.2		
2	58.6	+ 17 39		14.8		
2	58.7	+ 16 29		15.4		
2	59.3	+ 17 09		15.7		very diffuse
3	01.7	+ 17 29		15.5		compact
3	02.5	+ 19 10		15.5		
3	05.6	+ 20 35		15.1		





FIELD No. 464

$3^{\text{h}}17^{\text{m}} + 18^{\circ}30'$

Survey Plate No. 1460

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
3805	3	08	45.9	+	19	32 20	4.53
3824	3	09	36.6	+	16	19 48	7.32
3872	3	12	01.3	+	20	51 38	4.95
4026	3	19	52.3	+	20	33 52	5.25
4103	3	24	11.7	+	18	34 59	6.45
4155	3	26	53.0	+	16	35 29	7.02

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0303.3 + 1821	open	62	4.5	D	9
0307.7 + 1907	medium compact	117	10.5	Near	6
0308.2 + 1839	compact	100	2.1	VD	7
0312.2 + 1551	open	204	14.0	Near	1
0313.8 + 2118	compact	68	1.9	VD	5
0316.9 + 2048	medium compact	65	2.4	VD	8
0325.7 + 1758	medium compact	103	2.8	VD	4
0328.2 + 1812	compact	40	1.0	ED	3
0329.7 + 1822	medium compact	78	2.1	ED	2

Average number of galaxies per cluster = 93.0

GALAXIES

Position α 1950 δ			NGC IC*	m _p	V _s km/sec	Remarks
h	m	s				
3	05.6	+ 20 35		15.1		
3	06.6	+ 15 55		15.7		compact
3	06.8	+ 18 19		15.5		
3	07.2	+ 15 50		15.6		
3	07.2	+ 19 00	1890*	15.6		
3	07.6	+ 19 25	1894*	15.6		
3	09.6	+ 19 03		15.1		
3	10.0	+ 18 36		15.7		diffuse
3	11.4	+ 16 18		15.0		
3	11.8	+ 16 05		15.5		
3	12.5	+ 17 46		15.6		
3	16.5	+ 18 01		15.7		
3	18.0	+ 15 46		15.4		double system
3	21.2	+ 16 00		14.8		
3	21.2	+ 17 34		15.4		diffuse

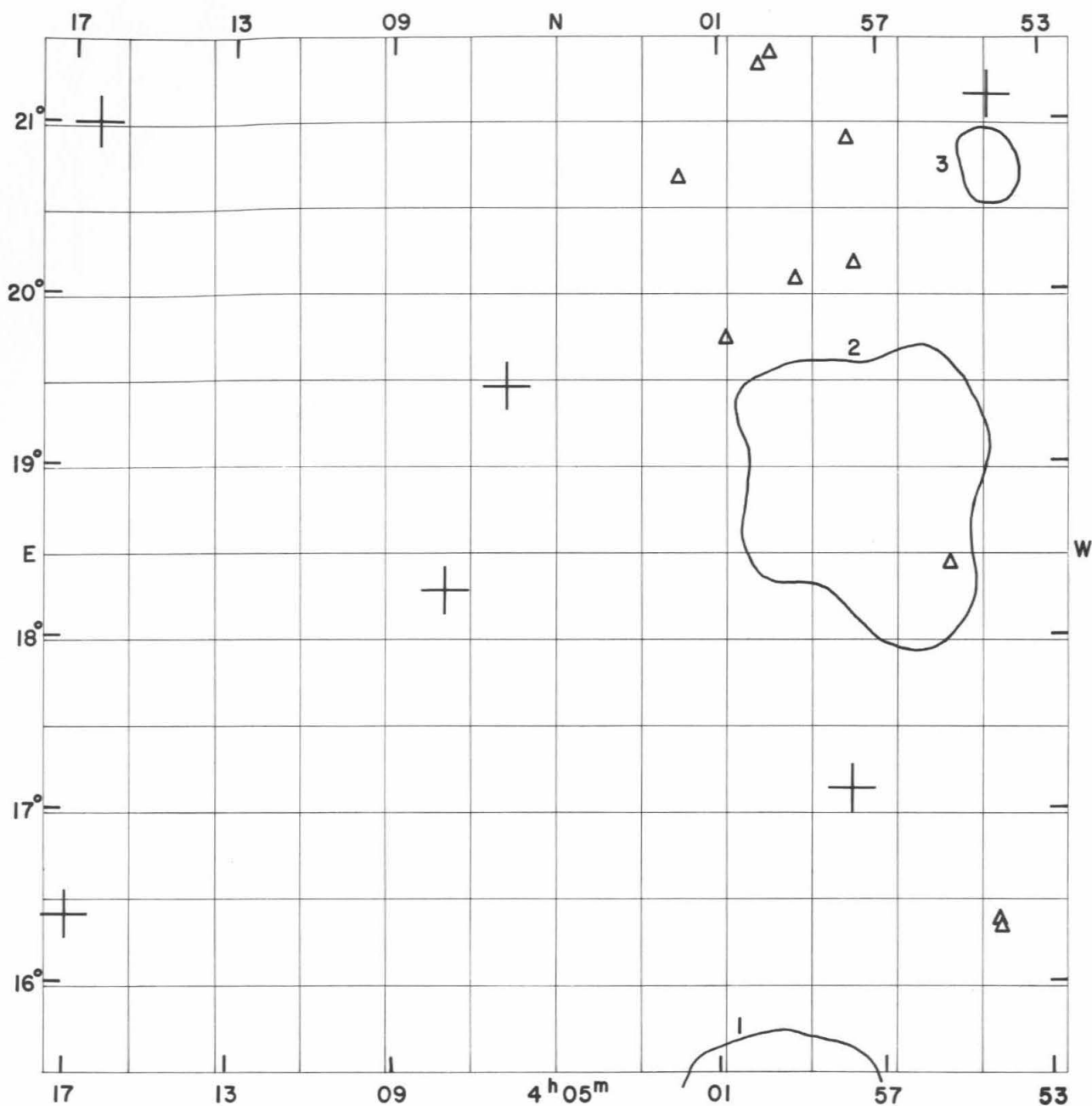
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0328.2 + 1812	compact	40	1.0	ED	6
0329.7 + 1822	medium compact	78	2.1	ED	5
0337.8 + 1536	medium compact	157	10.0	Near	1
0339.9 + 1816	medium compact	76	3.6	D	4
0349.8 + 2117	medium compact	74	2.0	VD	3
0354.2 + 2045	medium compact	85	2.1	VD	2

Average number of galaxies per cluster = 85.0

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α 1950	δ					
h m	o	s				
3 33.9	+ 20	58		15.5		
3 35.4	+ 19	13		15.7		compact
3 36.0	+ 20	15		15.1		
3 36.4	+ 15	40	1384	15.6		
3 36.6	+ 20	22		15.7		
3 37.3	+ 17	15		15.7		
3 37.9	+ 17	35	1977*	14.6		
3 39.2	+ 15	50		15.7		compact
3 47.3	+ 17	32		15.7		
3 50.8	+ 19	49	355*	15.4		
3 51.3	+ 15	50		15.6		diffuse
3 51.4	+ 15	47		15.3		



FIELD No. 466
 $4^{\text{h}}05^{\text{m}} + 18^{\circ}30'$
 Survey Plate No. 223

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
4752	3	54	15.3	+	21	10 48	6.95
4798	3	57	45.2	+	17	09 25	6.30
4995	4	06	14.9	+	19	28 43	5.67
5023	4	07	48.5	+	18	17 39	6.62
5210	4	16	29.0	+	21	01 23	5.39
5230	4	17	02.9	+	16	24 13	6.86

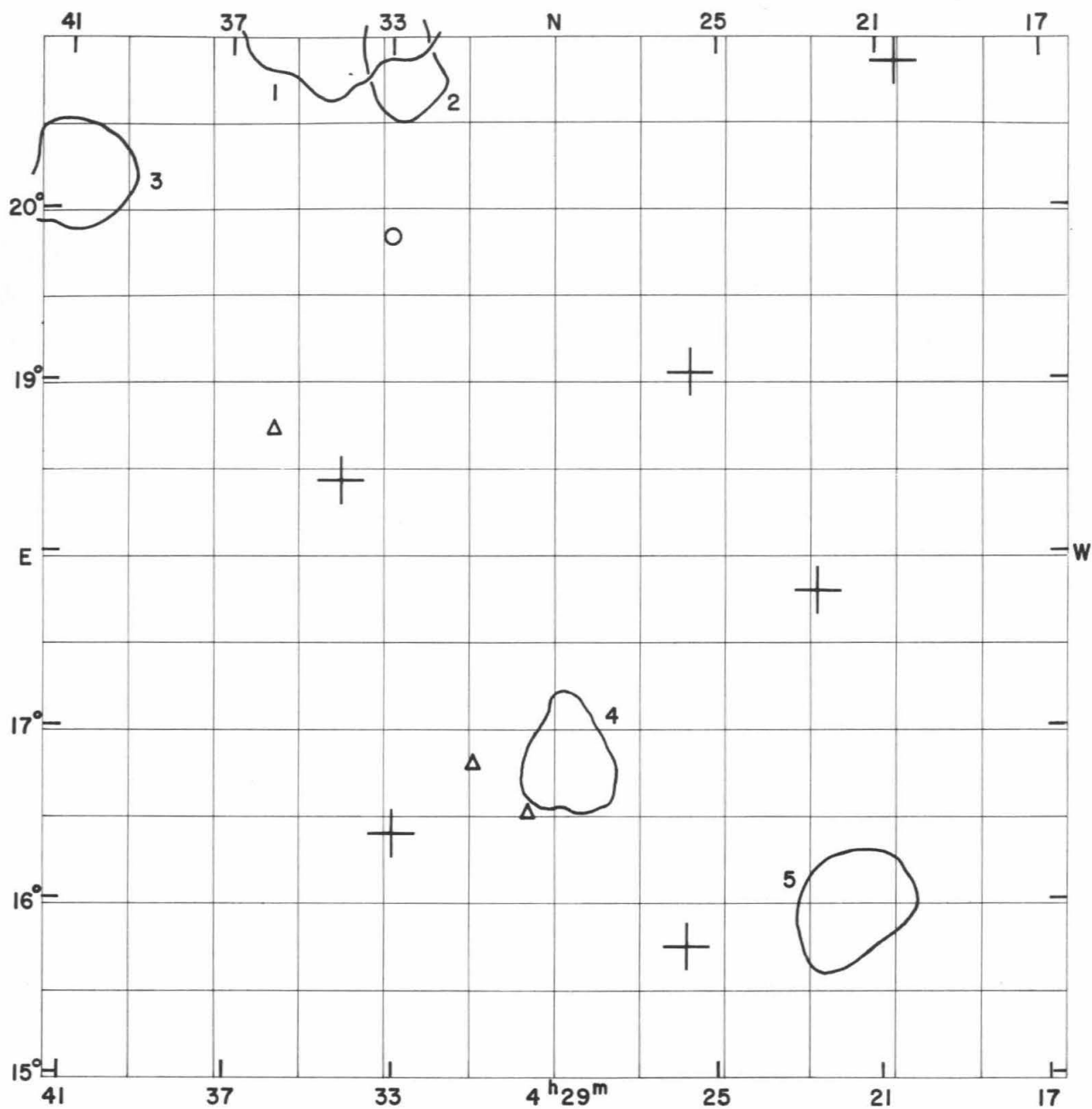
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0354.2 + 2045	medium compact	85	2.1	VD	3
0357.2 + 1850	open	100	8.5	MD	2
0358.8 + 1511	open	119	6.8	D	1

Average number of galaxies per cluster = 101.3

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α 1950	δ					
h m	o					
3 54.2	+ 16	20		15.7		diffuse
3 54.2	+ 16	22		15.7		diffuse
3 55.3	+ 18	26	1488	15.5		
3 57.6	+ 20	10		15.6		diffuse
3 57.8	+ 20	55		15.5		
3 59.0	+ 20	05	2016*	15.7		compact
3 59.7	+ 21	25		15.7		compact
4 00.0	+ 21	20		15.5		
4 00.8	+ 19	45	358*	15.3		
4 02.0	+ 20	41		15.7		



FIELD No. 467

$4^{\text{h}}29^{\text{m}} + 18^{\circ}00'$

Survey Plate No. 1501

GC STARS

Nos.	R. A.			Decl.			m_p
	h	m	s	°	'	"	
5317	4	20	35.4	+	20	52 02	5.92
5354	4	22	35.6	+	17	48 55	4.24
5430	4	25	41.6	+	19	04 16	3.63
5436	4	25	48.2	+	15	45 42	3.62
5605	4	33	02.9	+	16	24 37	1.06
5621	4	34	20.2	+	18	26 35	Var.

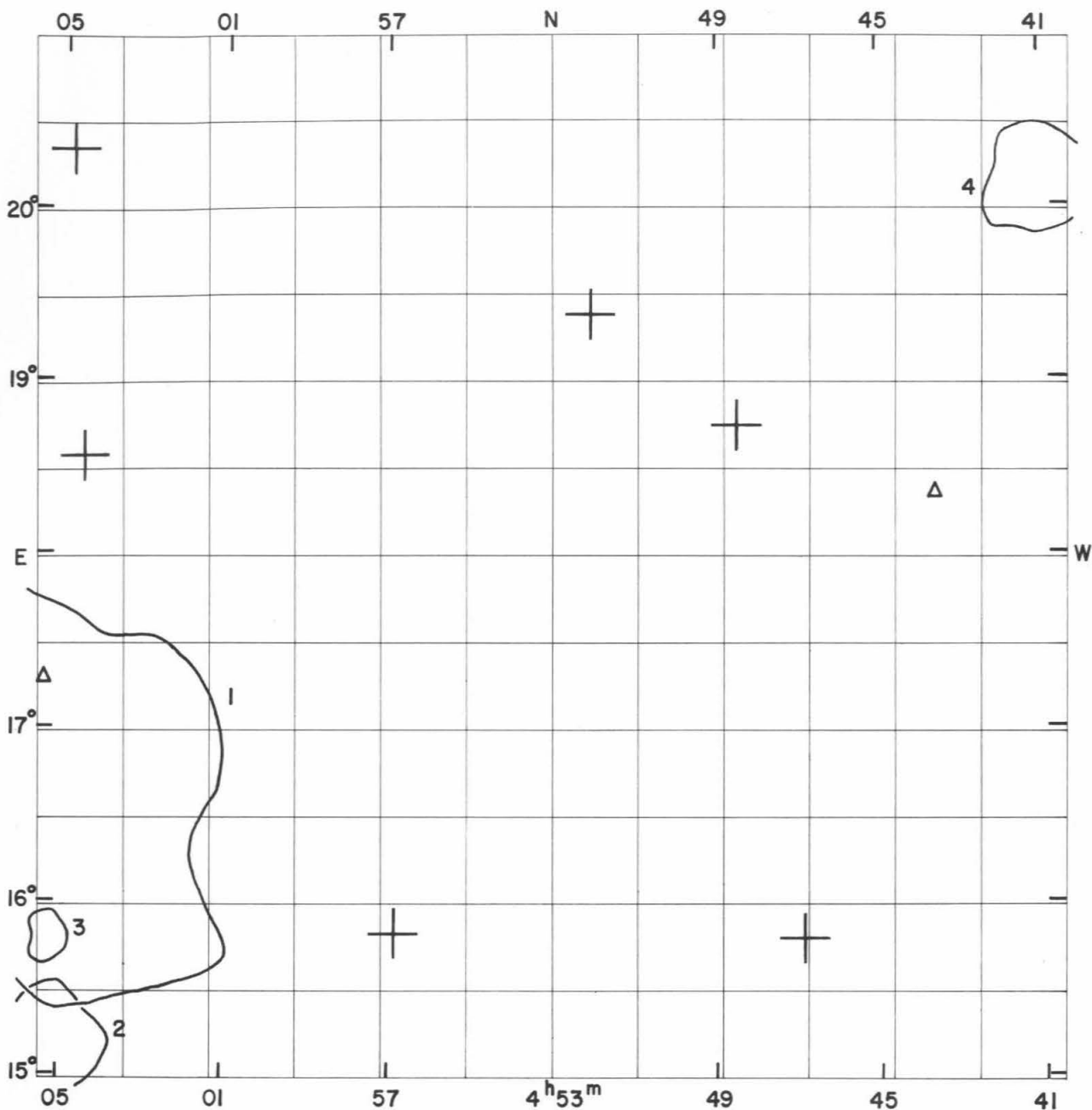
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0421.7 + 1556	medium compact	82	3.7	MD	5
0428.6 + 1647	medium compact	76	3.2	MD	4
0432.9 + 2051	medium compact	92	2.8	VD	2
0434.5 + 2112	medium compact	96	5.8	Near	1
0441.0 + 2012	open	78	3.5	D	3

Average number of galaxies per cluster = 84.8

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
4	29.6	+16	32	374*	15.7		
4	31.0	+16	48		15.6		very diffuse
4	33.0	+19	50	1615	15.0		
4	35.9	+18	44		15.7		



FIELD No. 468

$4^{\text{h}}53^{\text{m}} + 18^{\circ}00'$

Survey Plate No. 1481

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	°	'	"	
5873	4	46	52.3	+	15	49 07	6.34
5907	4	48	26.8	+	18	45 23	5.12
5984	4	52	01.8	+	19	24 22	6.24
6085	4	56	52.0	+	15	50 36	6.70
6255	5	04	29.5	+	18	34 47	5.04
6259	5	04	50.7	+	20	21 15	5.29

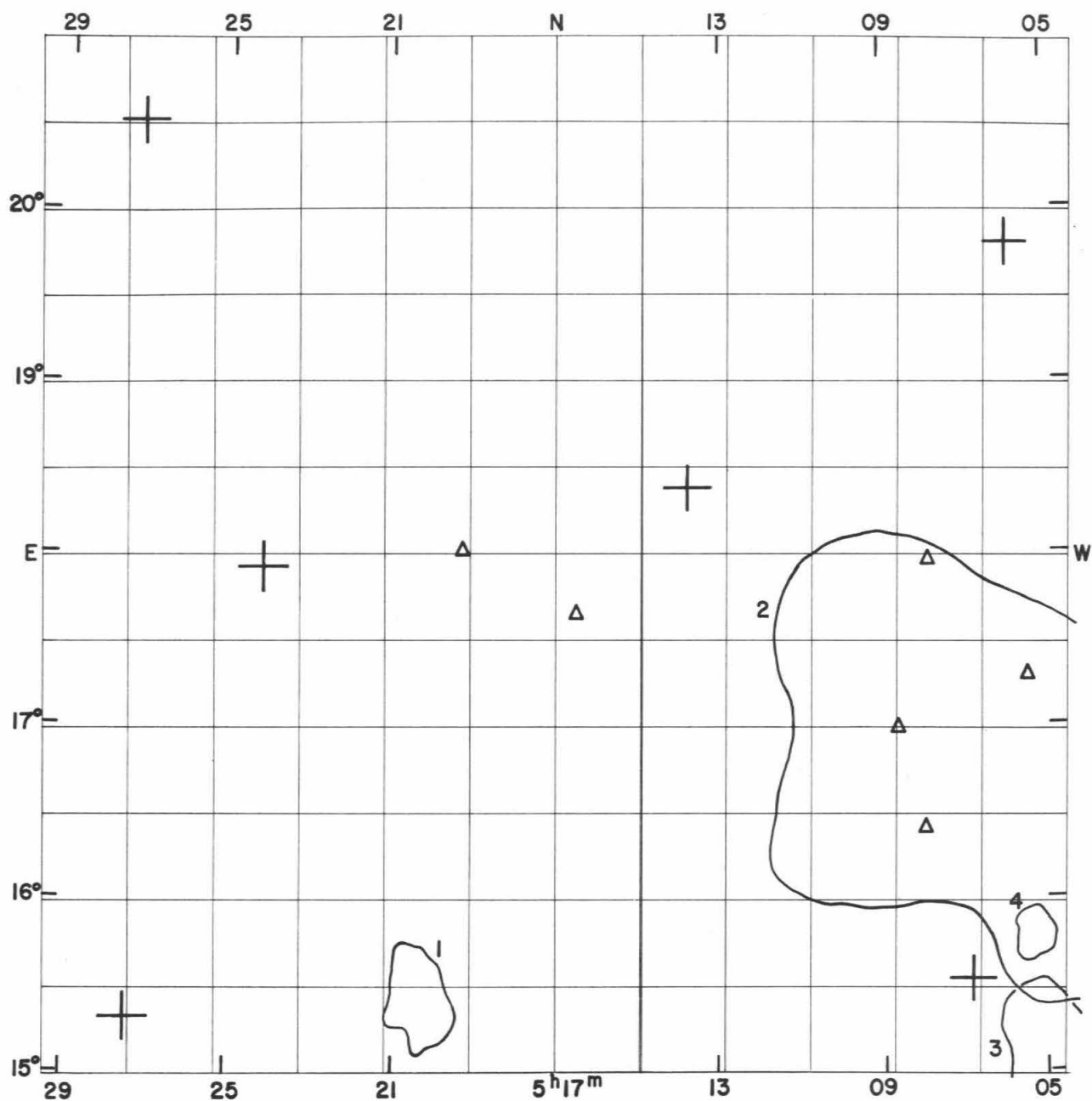
CLUSTERS OF GALAXIES

Cluster	Character	Popu- lation	Diameter in cm	Distance	Number on chart
0441.0 + 2012	open	78	3.5	D	4
0505.0 + 1510	medium compact	83	3.2	D	2
0505.2 + 1548	medium compact	87	1.4	ED	3
0506.6 + 1649	open	151	13.4	Near	1

Average number of galaxies per cluster = 99.8

GALAXIES

Position			NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ				
h	m	o				
4	43.6	+18 23		15.7		very diffuse
5	05.4	+17 18		15.4		double system



FIELD No. 469

$5^{\text{h}}17^{\text{m}} + 18^{\circ}00'$

Survey Plate No. 639

GC STARS

Nos.	R.A.			Decl.			m_p
	h	m	s	o	'	"	
6279	5	05	53.2	+	19	47 48	6.55
6306	5	06	50.1	+	15	32 06	4.86
6445	5	13	48.4	+	18	23 07	7.5
6714	5	24	15.0	+	17	55 15	5.31
6798	5	27	16.6	+	20	30 50	6.85
6805	5	27	34.3	+	15	19 24	5.78

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0505.0 + 1510	medium compact	83	3.2	D	3
0505.2 + 1548	medium compact	87	1.4	ED	4
0506.6 + 1649	open	151	13.4	Near	2
0520.3 + 1525	medium compact	68	2.5	MD	1

Average number of galaxies per cluster = 97.3

GALAXIES

Position				NGC IC*	m _p	V _s km/sec	Remarks
α	1950	δ					
h	m	o	'				
5	05.4	+17	18		15.4		double system
5	07.8	+17	58		15.2		double system
5	07.9	+16	25		15.7		compact
5	08.6	+16	59		15.5		diffuse
5	16.5	+17	39		15.4		
5	19.3	+18	02		15.6		

